

THE
ARCHITECT
& BUILDING NEWS

11 NOVEMBER 1959

VOL. 216

NO. 14

ONE SHILLING WEEKLY



BUILDING EXHIBITION GUIDE



BRADY

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SLIDING SHUTTER DOORS



HAND LIFTS

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RUBBER DOORS - ORNAMENTAL IRONWORK - ALSO MANUFACTURERS OF BRADY LIFTS.

View & Bowden



Problem:

HEAT

Solution:

COLT Ventilation

Place:

**LEYLAND MOTORS LIMITED
LEYLAND LANCASHIRE**



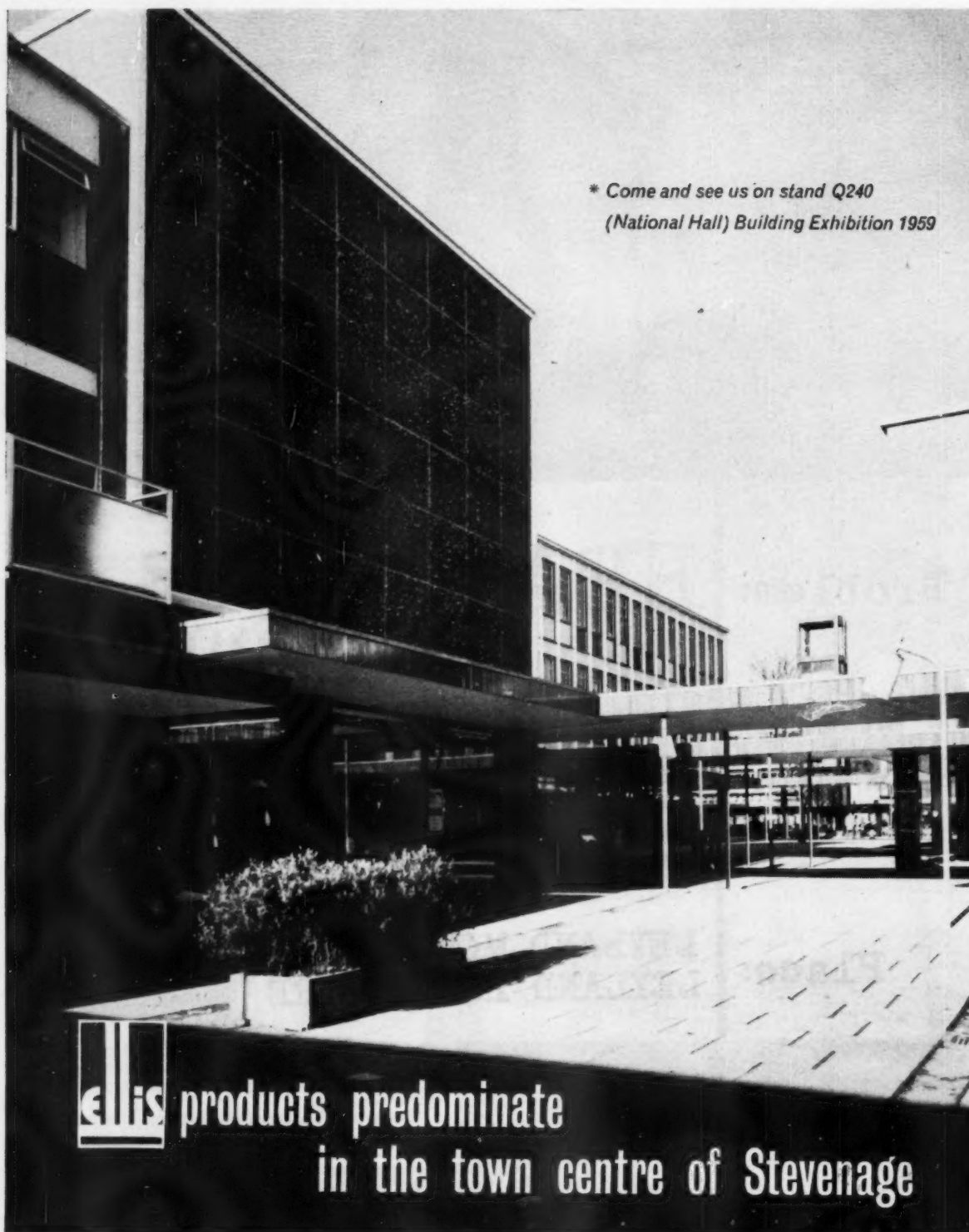
The Architects, Messrs. Harry S. Fairhurst & Son, F/A.R.I.B.A., who designed this factory for Leyland Motors Ltd. installed Colt Ventilators throughout for three reasons:

1. They had confidence in Colt Ventilation from past experience.
2. They liked the low silhouette which would not impair the appearance of the building.
3. The installation weighed 72 tons less than any other ventilation equipment available, thereby showing considerable saving in structural costs.

In providing a permanent solution to this ventilation problem Colt have added yet another chapter to their record of success—success which has brought repeat orders from many world-famous concerns. Send for a free Data Manual to Dept. AW 36/11

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* Come and see us on stand Q240
(National Hall) Building Exhibition 1959

ellis products predominate
in the town centre of Stevenage



The Eastern Electricity Board's offices in Stevenage New Town centre are typical of this modern, thriving community and afford an excellent example of the fine effect achieved by Ellis Kentish flint exposed aggregate panels. Ellis also made the concrete flowerboxes and the specially treated grey concrete slabs for the paving in the foreground.

Architect: L. G. VINCENT, A.R.I.B.A., A.M.T.F.I.

21 NEW WALK, LEICESTER. TELEPHONE: 56682

London Office: 29 Dorset Square, London NW1. Tel: AMBassador 1141/1142

Birmingham Office: 46 Exchange Buildings, Stephenson Place, Birmingham 2.

Tel: Birmingham Midland 1757

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for concrete, renderings, brick, etc.

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We shall be glad to send specification sheets and colour card.

Tretolin paint



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ALUMINIUM SASH WINDOWS
ARE MY FAVOURITE BECAUSE
I DON'T LIKE DRAUGHTS
AND RATTLES AND THEY
DON'T HAVE ANY

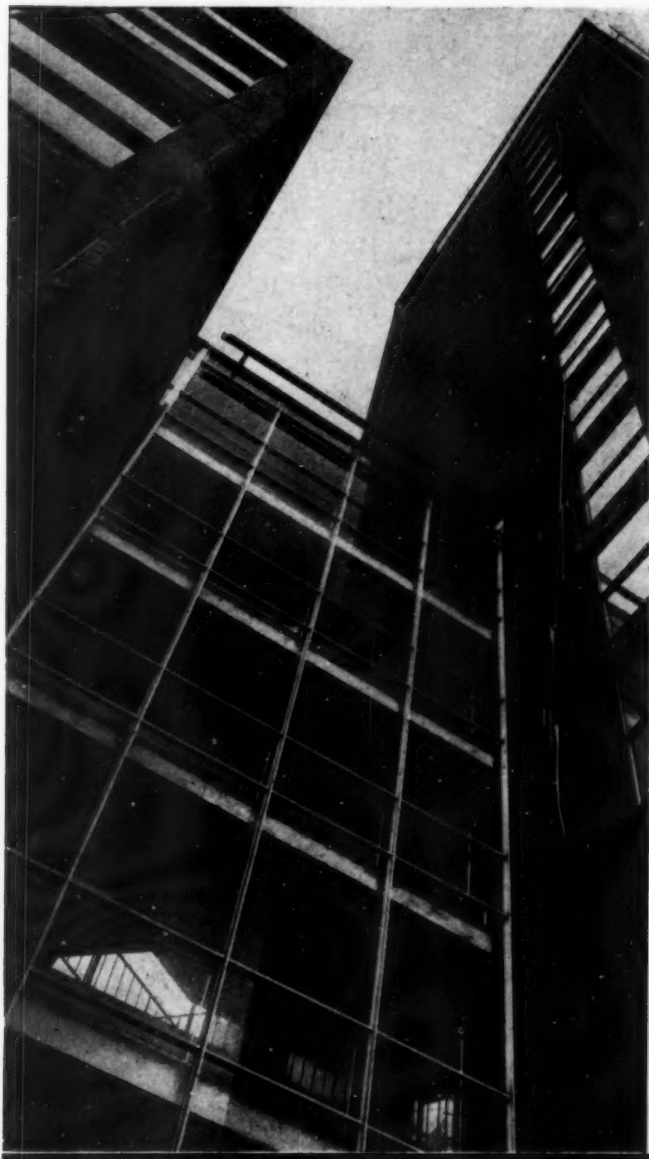


Despite the fact that this is one of Britain's tallest office blocks, it was up and occupied in the fantastically short time of 19 months.

Offices at Paddington.
Architects:
C. H. Elsom and Partners
Architect in charge:
F. P. Softley, A.R.I.B.A.

And she'd probably say that this is her favourite office block—the famous Eastbourne Terrace development at Paddington—it contains no less than 2,698 aluminium double-hung windows by Williams & Williams. This is the largest aluminium sash window contract carried out recently in this country.

The scheme occupies 1,000 feet of frontage along Eastbourne Terrace. The component buildings have been planned in varying sizes and heights to give each its own identity



WILLIAMS & WILLIAMS ALSO DID

THE WALLSPAN CURTAIN WALLING

(The Wallspan clads the combined staircase and bridge structures which link the tower with the wings.)

AND THE PURPOSE MADE BALUSTRADING

(2,050 feet of balustrading encircle the cornice of the wings. The rails are of aluminium, the upstands of steel for extra strength.)



and to make for flexibility in letting.
All this has been done without sacrificing
the unity of the design—partly by the
consistent use of Williams & Williams
double-hung windows.

forward looking building products

WILLIAMS & WILLIAMS

Williams & Williams make steel windows of every description, ALOMEGA and other aluminium windows, movable steel and glass partitioning, ALUMINEX patent glazing, WALLSPAN curtain walling and many other products.

WILLIAMS & WILLIAMS RELIANCE WORKS CHESTER

WILLIAMS HOUSE 37-39 HIGH HOLBORN LONDON W.C.1

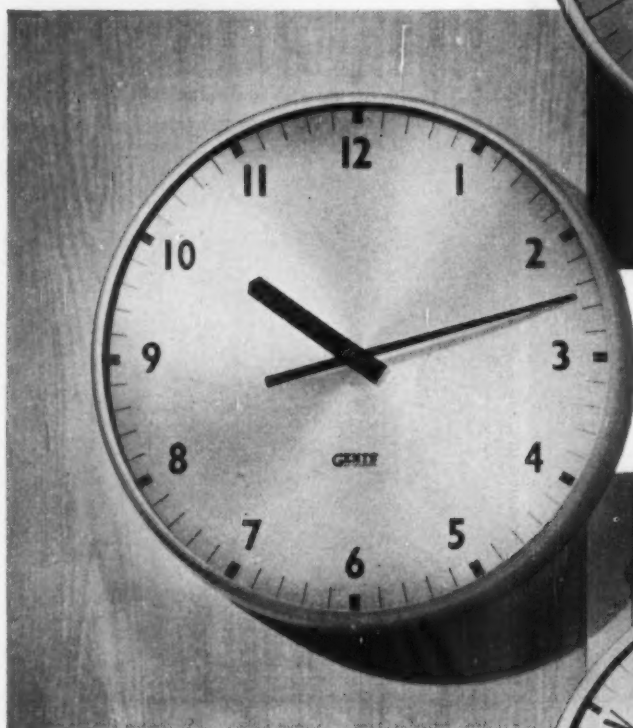
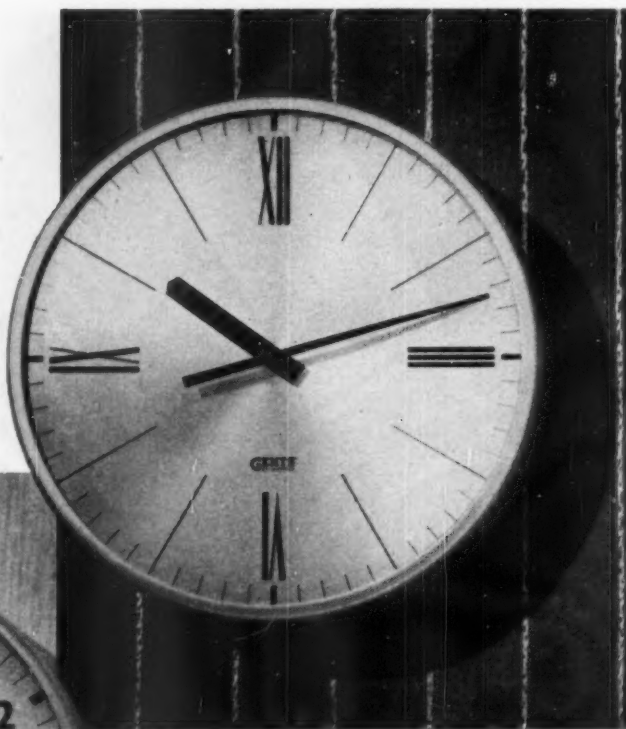


Maximum legibility and good taste are combined in the Gents wall clocks shown here.

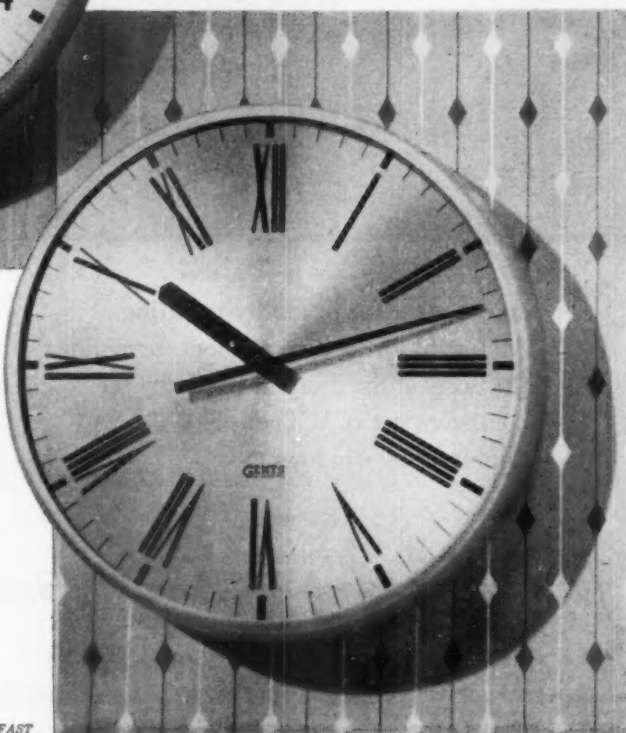
Styled by a leading industrial designer they provide a choice of standard models which fit happily into present-day surroundings and décor.

These and others in the extensive Gents range have been selected by the Council of Industrial Design for inclusion in Design Index.

All are available for operating either on A.C. Mains or as part of a Master Clock System.



In every way... Right!



May we send you literature?

GENTS OF LEICESTER **ELECTRIC CLOCKS**

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Faraday Works, Leicester. Telephone: 36151
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Wincilate is incomparable for copings & cappings.

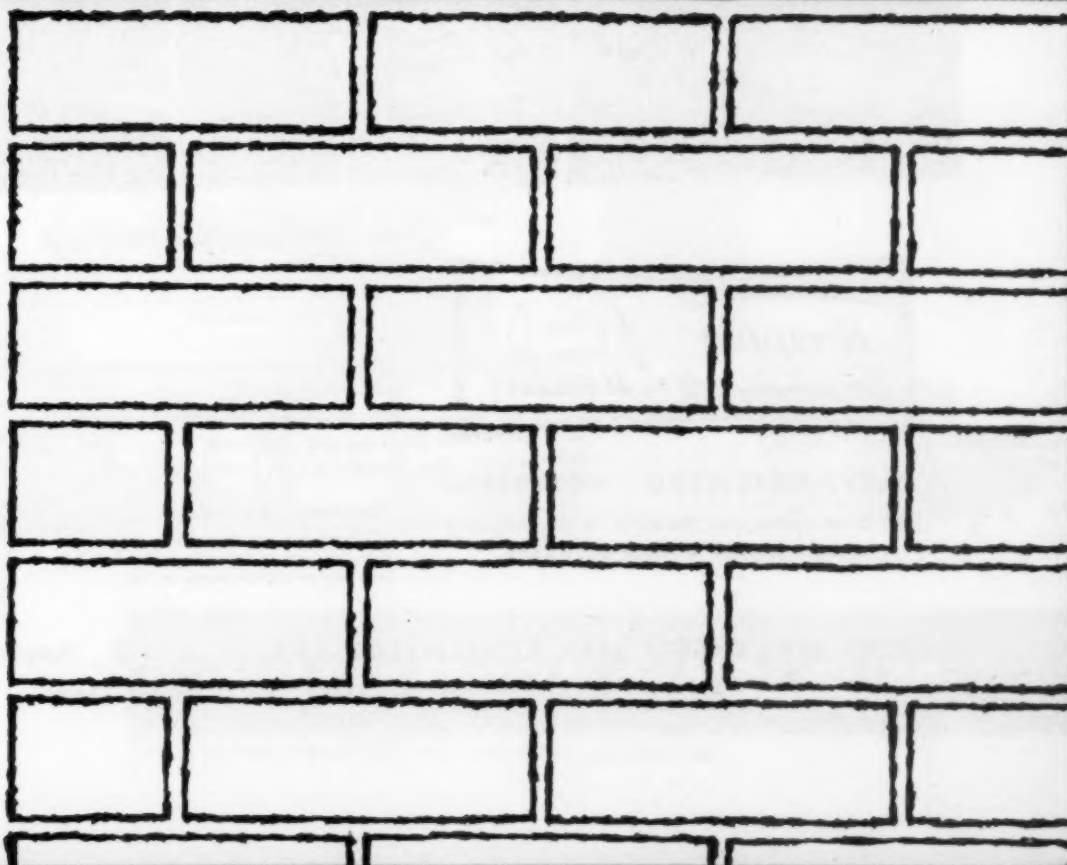
Machined from selected slate in a variety of types and sizes to suit various wall thicknesses and profiles. **Wincilate** copings cannot warp, shrink or rot, and being completely non-porous, eliminate the need for damp proofing. **Wincilate** copings provide a skyline that is precise and permanent.

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Bow Road, London E.3. Telephone ADVance 2203.
Works: Bow and Battersea. Quarries: Aberllefenni.

The Wincilate Group

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Offices
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Libraries
Schools . . .



in fact wherever a shelving plan is required
..it is to your client's benefit to specify this..



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obtainable **IN WOOD OR STEEL**

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and shelf spaces.
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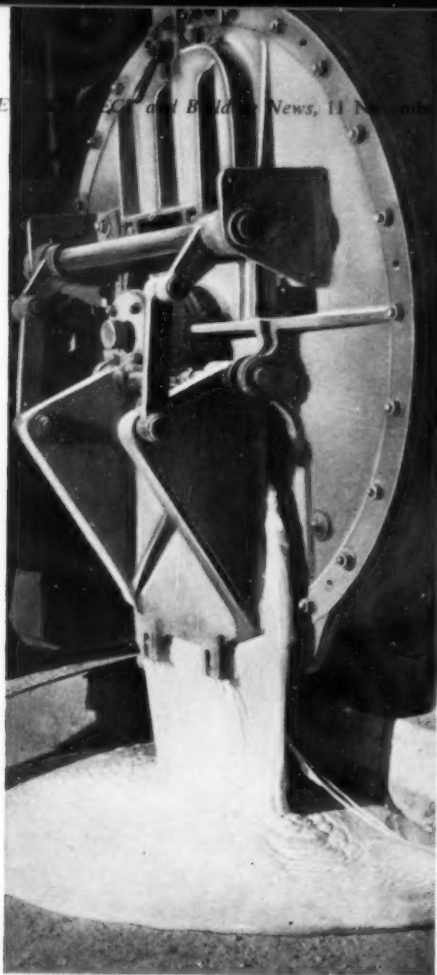
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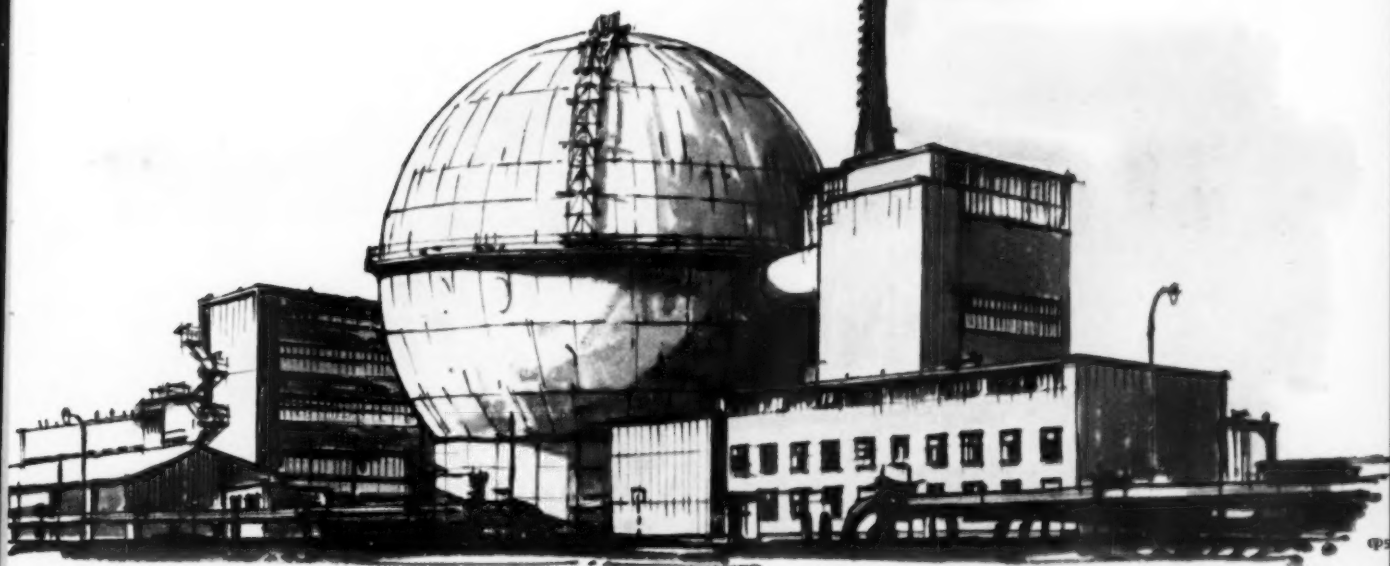


Oxidised linseed oil entering cooling bay.

MODERN LINOLEUM FOR MODERN INSTALLATIONS

Capital cost, laying, life or maintenance, judge how you will—linoleum is unequalled by any other floor covering. In addition, modern colours contemporary patterns and ease of working offer today's designer in linoleum a freedom of colour, form and design to answer every industrial and commercial flooring requirement. Williamson's "know-how" in the techniques of oxidising and polymerising Linseed Oil has made them leaders in the industry . . . and given Williamson's heavy gauge linoleum in 6.7 mm. and 4.5 mm. its outstanding qualities of flexibility, resilience and long life.

The Williamson Technical Advisory Service is always at your disposal—please contact us for further information.



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(Artist's impression)

The "beauty" of Number Seven decorative finishes is two-fold—their lasting "eye" appeal and their unique variety of applications both interior and exterior. With the suitable primer you can now specify Number Seven Exterior Flat Finish for nearly every standard surface—wood, metal, brick, plaster, concrete—and thus eliminate estimating and ordering complications as well as time wasted in mixing and matching colours. An impressive list of recent contracts is proof of Number Seven's outstanding success in all types of contracts.

Though surfaces vary . . .

the specification

remains the same



59, 63 Princes Gate, London, S.W.7

Architects: Messrs. Adie, Butt & Partners

Number Seven specified by Messrs. T. Mortimer Burrows & Partners

Painting Contractors: F. W. Barnard Ltd.



NUMBER SEVEN

NUMBER NINE

Where a textured finish is desired, Cementone No. 9 Waterproof Stoneface Composition is exclusively prepared for brick, cement rendering, reinforced concrete, asbestos-cement, plaster, and compo-board surfaces. Alkali-resistant, No. 9 matures to a natural stone finish and is available in ten colours.

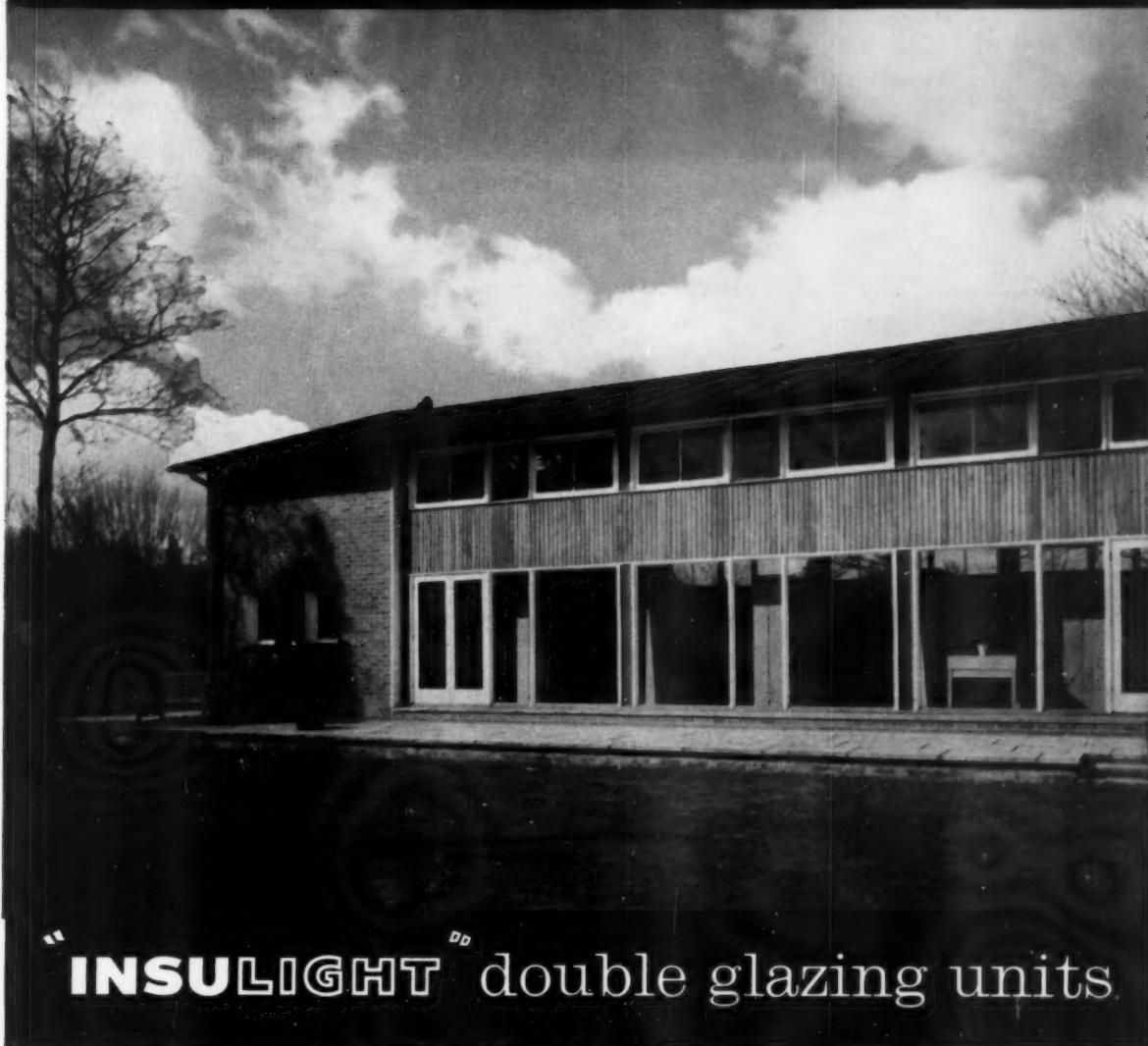
Number Seven is available in a range of fifty-four matching colours as a gloss, satin or interior and exterior flat finish. Write for colour card and standard specifications.

You can depend on *Cementone* products

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Light on fuel economy with



"INSULIGHT" double glazing units

The Buckinghamshire County Branch Library, Beaconsfield, has ground level glazing, including doors consisting of "INSULIGHT" Double-Glazing Units in $\frac{1}{4}$ " Polished Plate with $\frac{1}{4}$ " cavity.

Architect: F. B. Pooley, F.R.I.B.A., F.R.I.S.C., A.M.T.P.I., County Architect.

This library is flooded with natural light, but it is warm all through the winter on less-than-average fuel bills thanks to "INSULIGHT" Double Glazing. The $\frac{1}{4}$ " cavity units have a 'U' value of 0.52 B.t.u./ft² h deg. F., and they restrict fuel-wasting draughts. For further details write to the manufacturers: Pilkington Brothers Limited, St. Helens, Lancs. (Tel. St. Helens 4001) or Selwyn House, Cleveland Row St. James's, London, S.W.1 (Tel. WHitehall 5672-6).

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Supplies are available
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first with Decpol-Polyester
are exhibiting
the 'Californian' kitchen



on Stand
No. 513
Grand Hall
Gallery
at the
Building
Exhibition

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BILLET ROAD · WALTHAMSTOW
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See for yourself the kitchen women all over the country are demanding; and see also the reasons why the sales figures continue to climb. Reasons such as these:

DECPOL the wonderful polyester finish that provides a high-gloss, scratch resistant surface that is now used on all front exterior surfaces of the "Californian".

DECPOL is virtually a plastic coating looking and feeling like highly polished coloured glass, and which is far more hard wearing than any paint finish.

DECPOL has been subjected to rigorous laboratory tests which have proved that contact with smoking hot fat, boiling water or detergent, vinegar or methylated spirit will not harm the finish in any way.

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Laminated Plastic Working Surfaces — in six attractive colours.

Seasoned Timber Units — trimmed with natural beech.

Mahogany Drawer Interiors — all cupboard interiors finished in gleaming white enamel.

Stainless Steel or Vitreous Enamel Sinks — with a choice of single or double drainers.

These are the reasons why the "Californian" Kitchen is selling so fast and why you must see it at the Building Exhibition, Stand No. 513, Grand Hall Gallery.

London Kitchen Showroom: 82 Victoria Street, London S.W.1 Telephone: VICTORIA 0372



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★ CONCRETE PLASTICISER AND DENSIFIER

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BUILDING EXHIBITION

OLYMPIA NOVEMBER 18th DECEMBER 2nd

STAND 43_{ROW C}

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fine

**JOINERY
FLUSH DOORS
WINDOWS
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KITCHEN UNITS**

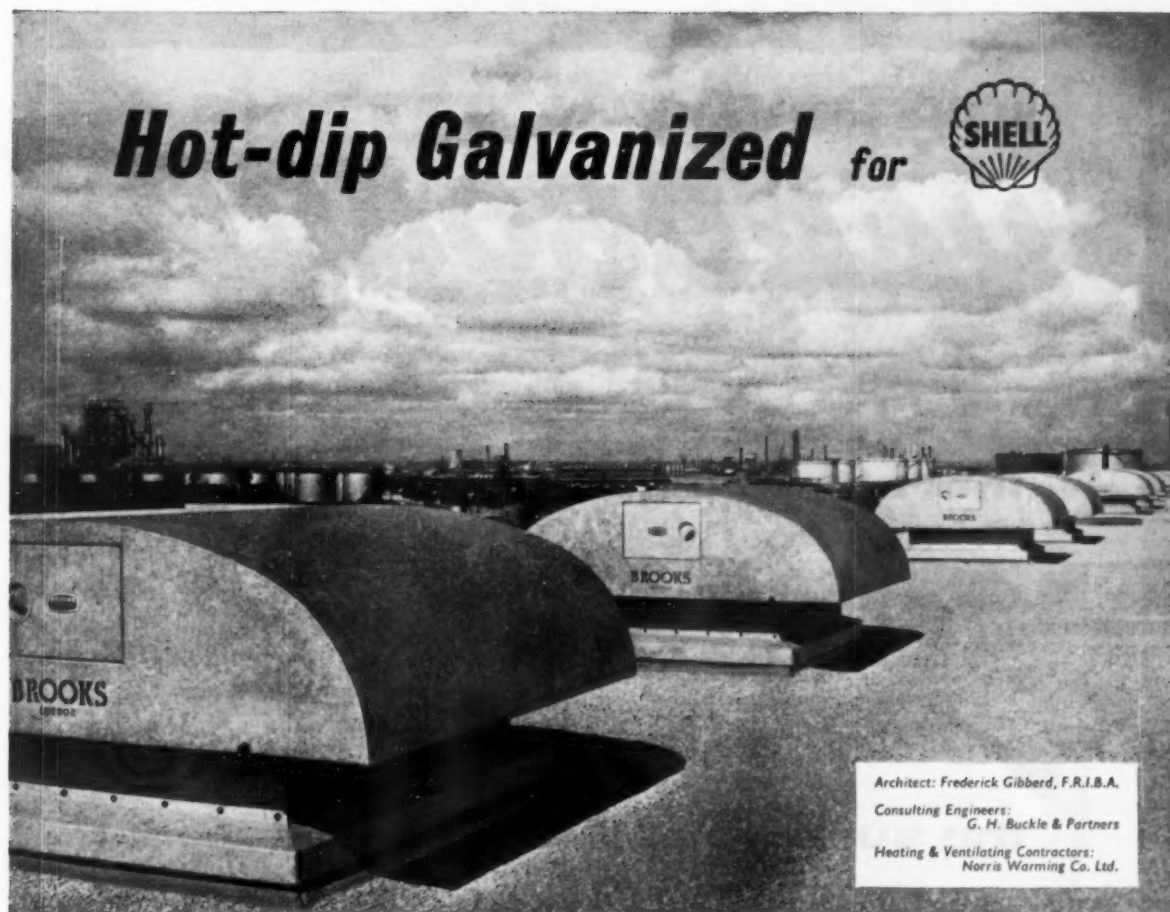


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Hot-dip Galvanized for



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★ Brooks 48", 36" and 30" fan-powered roof extract units were chosen to provide positive ventilation for the Lubricating Oil Laboratories (Engine Bay) at the new Shell Research Centre, Thornton, Cheshire.

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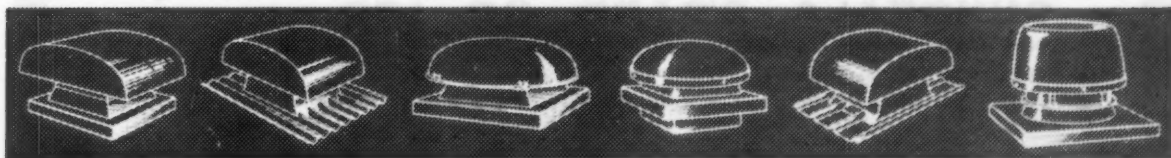
BROOKS

VENTILATION

fan-powered

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Pioneers in carbide tipped masonry drills, the Rawlplug Company has gone still further ahead with the widest range of percussion, vibration

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'DURIUM' TIPPED MASONRY DRILLS

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For use in Wheelbrace or slow speed electric drill

17 sizes 5/32" to 1" cutting diameter and 11 long series 1/2" to 1" cutting diameter for up to 16" drilling length.

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For percussion drilling in hard materials such as Granite, Blue Bricks, Concrete etc., Durium Hammer Drills have a very much longer life than ordinary percussion drills. They can be used in most electric Hammers and some type of Pneumatic Hammers. 13 sizes from 7/16" nominal drill diameter to 1 1/2".

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Vibroto Drills are specially manufactured for use with the Vibroto Drilling Machine, —a high efficiency power tool which allows of two vibratory actions (Light Rapid and Heavy Slow), and also a rotary action for use with standard Durium masonry Drills or ordinary Twist Drills. With their special cutting angle metallic carbide tips, and the high grade steel shanks heat-treated to withstand abrasion, Vibroto Drills put up spectacular performances in the drilling of concrete and other hard materials. Demonstrations can be carried out by Rawlplug Technical Representatives anywhere in the British Isles.

10 sizes 5/32" up to 15/32" cutting diameter.



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These drills are designed for hole boring in concrete, hard brickwork and tiles with portable rotary action tools. They have from four to six cutting edges (depending on size) and if one should be damaged the remainder will go on cutting. Spoil is automatically carried away through the cored shank and ejected via the slot.

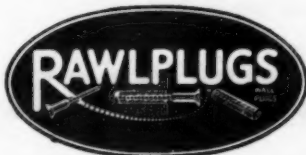
EXTENSION TYPE DRILLS ANY DEPTH

By adding extension rods to the Extension Type Rawlcrete Drill, any depth of hole can be drilled. 26 sizes 1/8" up to 2" cutting diameter.



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$\frac{10}{10}$ for CERRUX

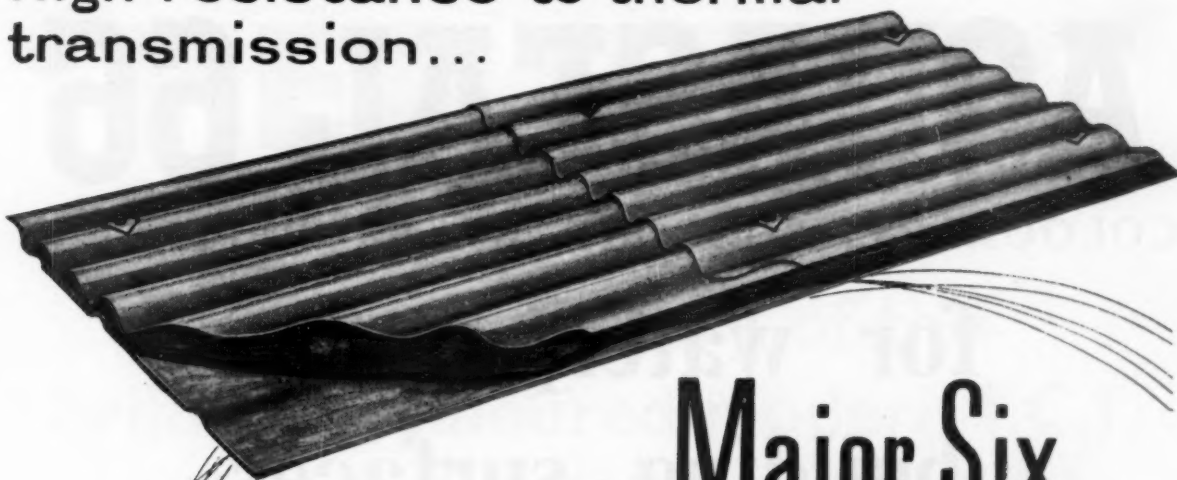
Inside and out the Bexhill-on-Sea Roman Catholic School for Girls is Cerrux-protected to withstand the hard wear and tear of school life. More and more schools, factories and offices are giving full marks to Cerrux for good looks and long service.

the finishing touch is **CERRUX**

Cerrux Decorating Paints manufactured by CELLON LTD., KINGSTON-ON-THAMES. Tel: Kingston 1234

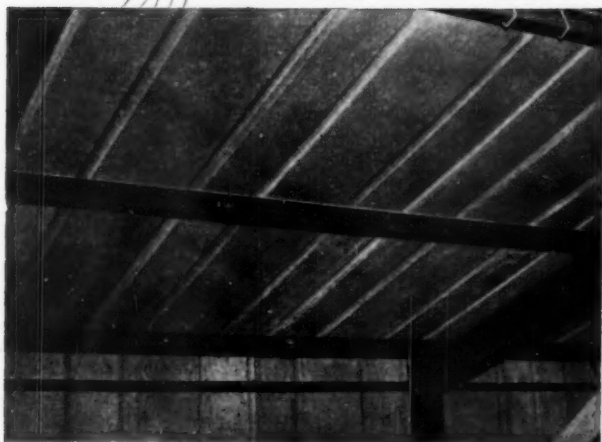
CVS-932

High resistance to thermal transmission...



Major Six

DOUBLE CLADDING INSULATION



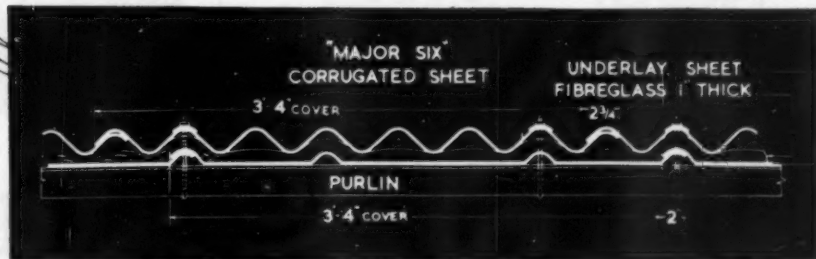
Photograph above illustrates interior view of roof

"Major six" DOUBLE cladding insulation provides a high resistance to thermal transmission, contributing to higher equable interior temperature and consequent economical heating. Here is dependable roofing made for quick erection and permanent service.

It's the DOUBLE cladding that does it!—a rigid asbestos-cement underlining sheet laid directly to purlins as a soffit upon which the sheet of insulation is laid before putting the "Major six" sheet in position.



ON STAND 24B
GRAND HALL



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EIGHT GOOD REASONS WHY ARCHITECTS SHOULD SPECIFY

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COLOURLESS SILICONE WATER REPELLENT

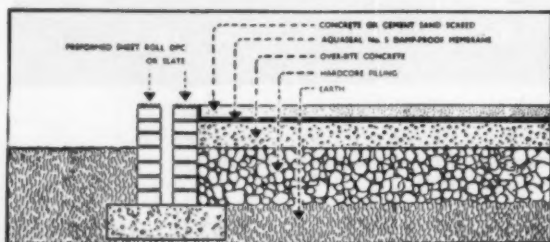
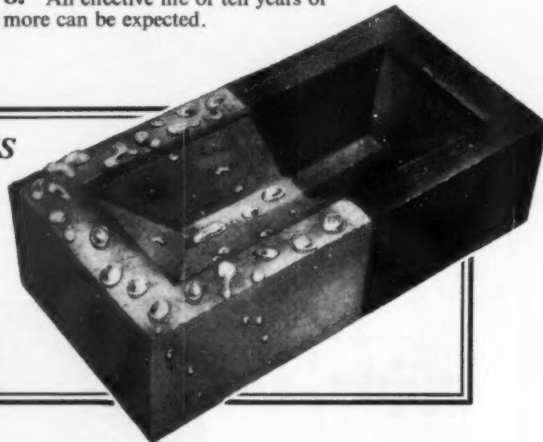
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1. AQUASEAL 66 keeps exterior above-ground walls dry.
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3. Does not seal the surface; masonry can still breathe and dampness within walls can dry out.
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7. Chemically inert and does not damage masonry.
8. An effective life of ten years or more can be expected.

SEE HOW EFFECTIVE AQUASEAL 66 IS

Samples of common brick treated with Colourless AQUASEAL were immersed in $\frac{1}{2}$ " water and tested for absorption after 24 and 168 hours.

EXPOSURE TIME IN HOURS	% WATER ABSORPTION	
	UNTREATED BRICKS	TREATED BRICKS
24	16.37	0.00
168	16.94	0.01



AQUASEAL 5

LIQUID BITUMEN PROOFING

For damp-proof membranes in concrete floors. Within a few hours of application AQUASEAL 5 forms a firm jointless waterproof coating that protects flooring against damage by rising damp. AQUASEAL remains flexible, taking up any slight movement in the foundation.

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'PERSPEX'

**Get the full story of this
brilliantly coloured modern I.C.I.
material at the Building Exhibition**

ARE you making the most of coloured 'Perspex' acrylic sheet, the tough, modern material which offers brilliant opportunities for design, indoors and out? The best way to answer this question is to visit the Building Exhibition.

Here on the I.C.I. Stand No. 74/75D you can inspect 'Perspex' sheet in an exciting range of transparent, translucent and opaque colours *and* in clear and opal sheet. You can discuss with specialists the remarkable ability of 'Perspex' to withstand the corrosive atmosphere of industrial and marine areas and weather conditions anywhere in the world.

You can find out too about some of the very latest uses of 'Perspex' in the building field. It's an opportunity well worth taking.

BUILDING EXHIBITION
I.C.I. Stand No. 74/75D. Grand Hall, Olympia

'PERSPEX'

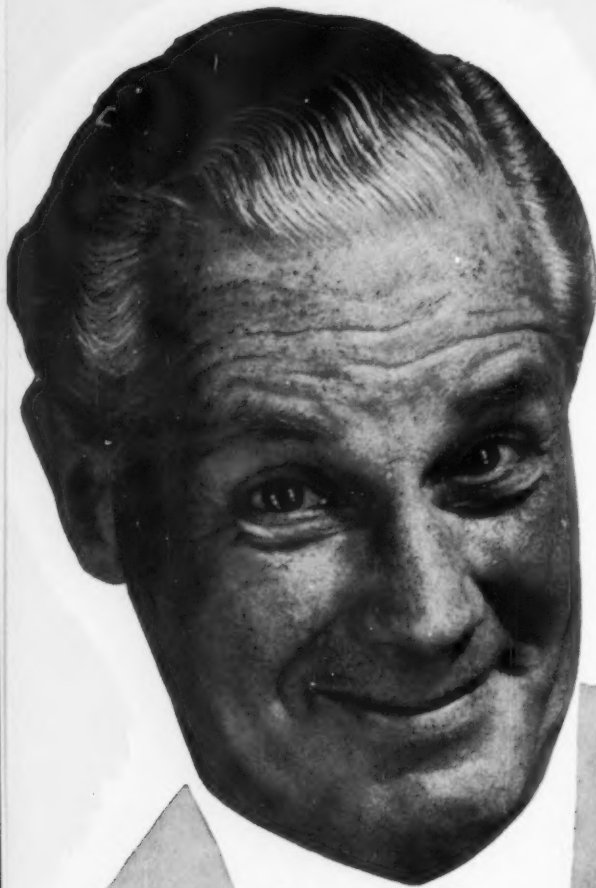
*'Perspex' is the registered
trade mark for the acrylic sheet
manufactured by I.C.I.*

IMPERIAL CHEMICAL INDUSTRIES LIMITED · LONDON · S.W.1

P.757



B



**Architects and consulting engineers
know that it pays to specify G.E.C. . . .**



STATE HOUSE. Architects: Trehearne & Norman Preston & Partners. Builders: Tersons Ltd. Electrical Contractors: Rashleigh Phipps & Co. Ltd. G.E.C. equipment: 2-Main Switchboards, Cubicle Pattern, 2-M.W. Switchboards, all 500 volt, Switch and Fusegear, Rising Main Service Units, Alum. Rising Main Busbars, Steel Cable Trunking, Conduit.

MINSTER HOUSE. Architects: Trehearne & Norman Preston & Partners. Builders: John Mowlem & Co. Ltd. Electrical Contractors: Rashleigh Phipps & Co. Ltd. G.E.C. equipment: Main Switchboard, all 500 volt Switch and Fusegear, Rising Main Service Units.

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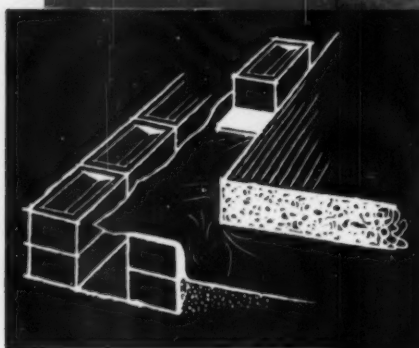
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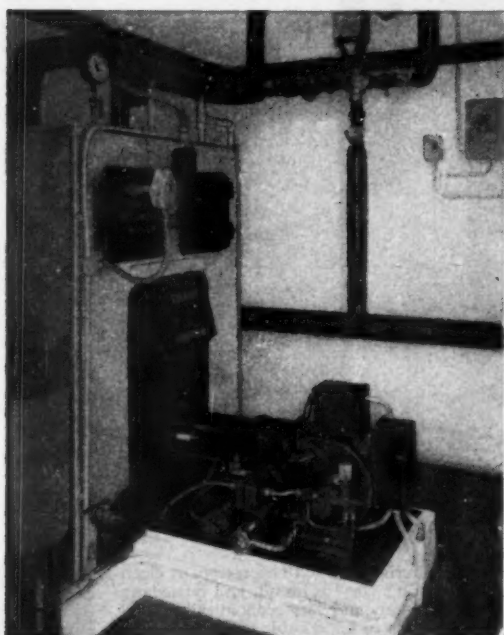
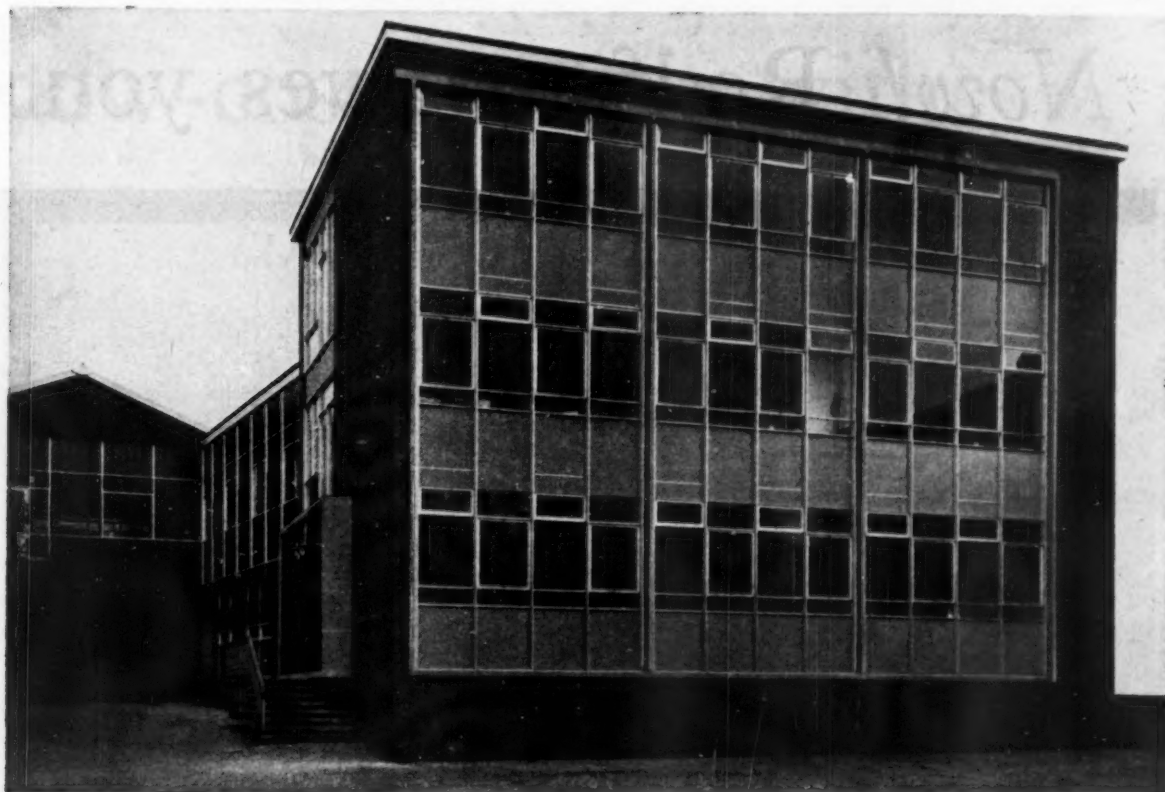
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ARCHITECTS: Burrough & Hannam, F.R.I.B.A., Bristol 1.

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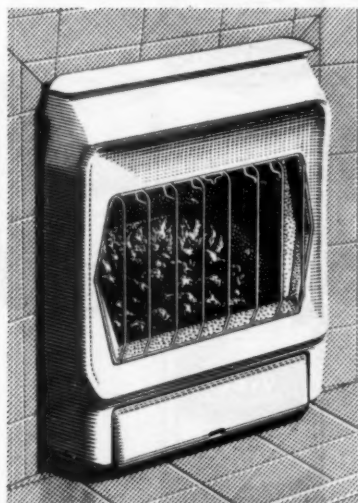
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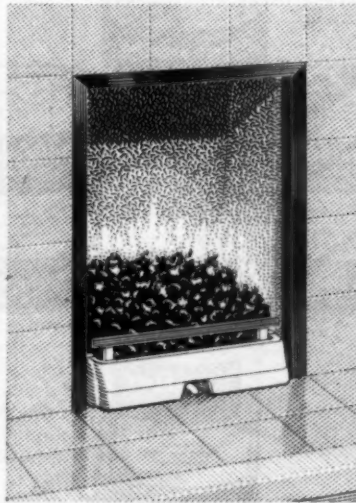
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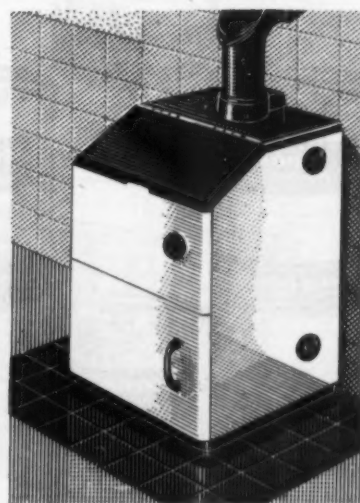
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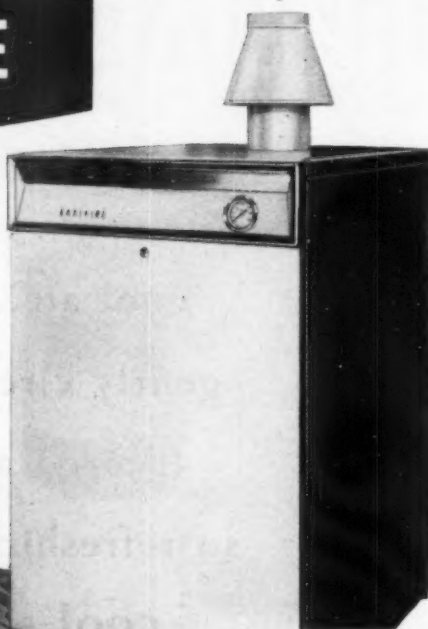
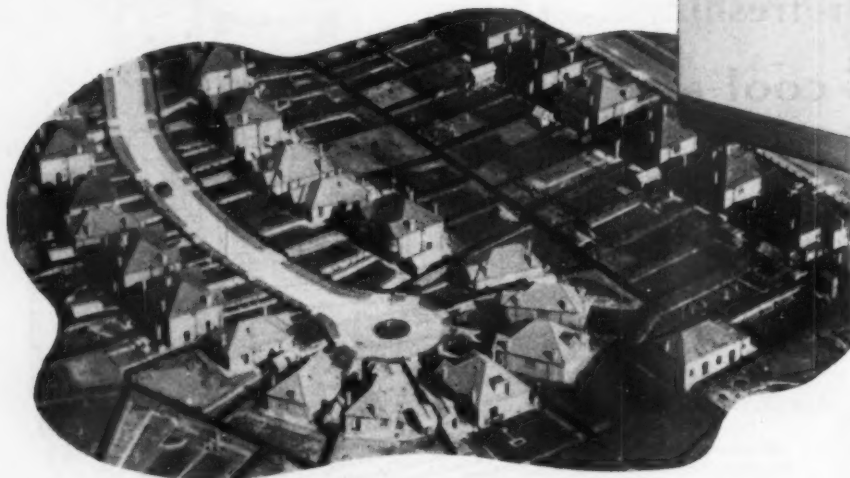
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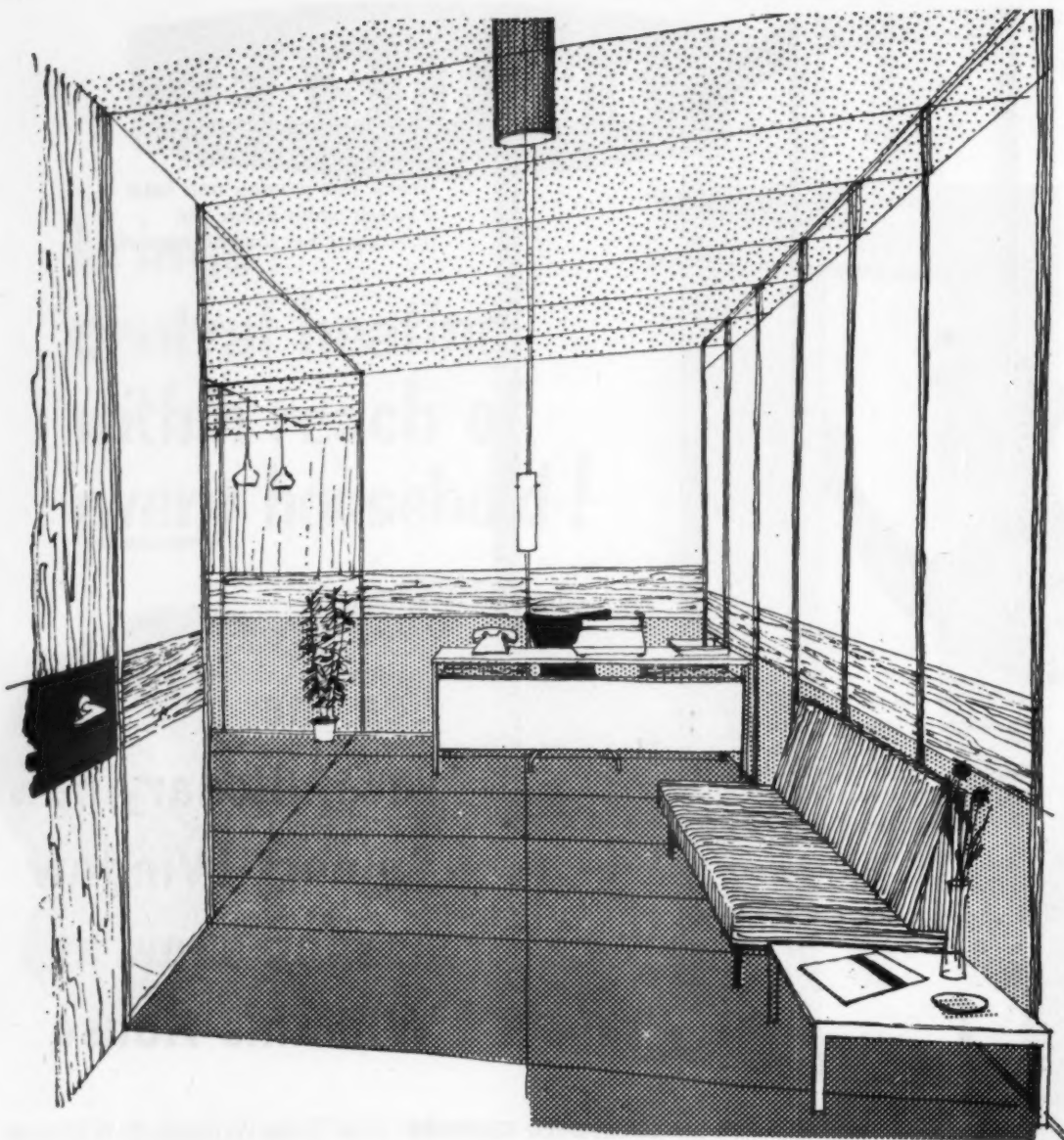
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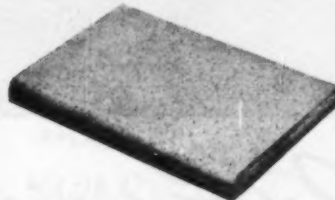
The task of preventing such accidents on staircases is a special one, Altro being the name closely associated with it. For many years this company has directed its efforts towards producing non-slip treads and nosings, paying special attention to safer methods of fixing.



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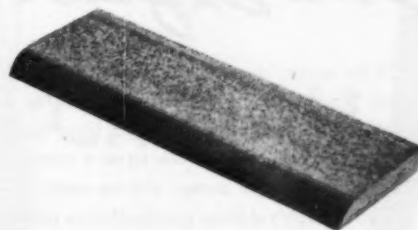
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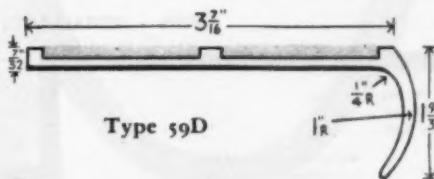
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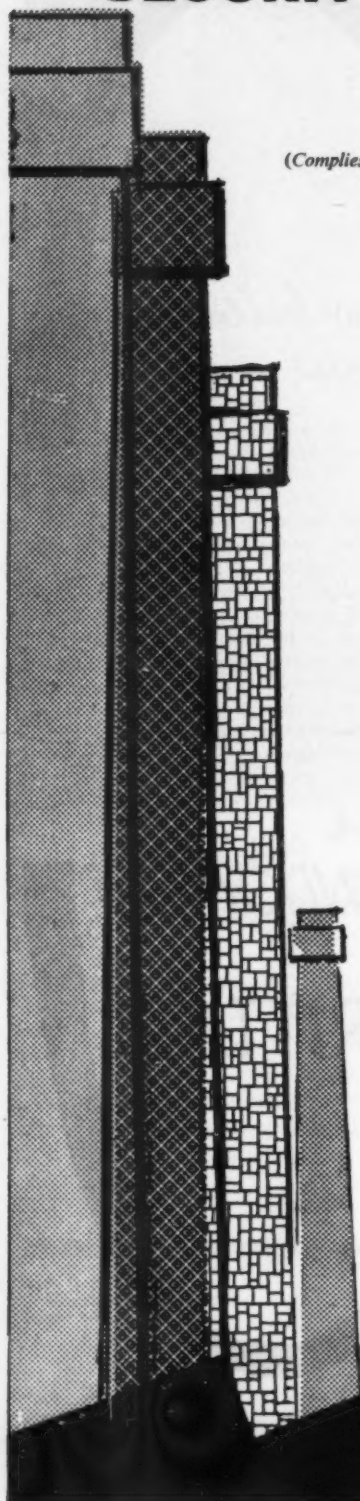
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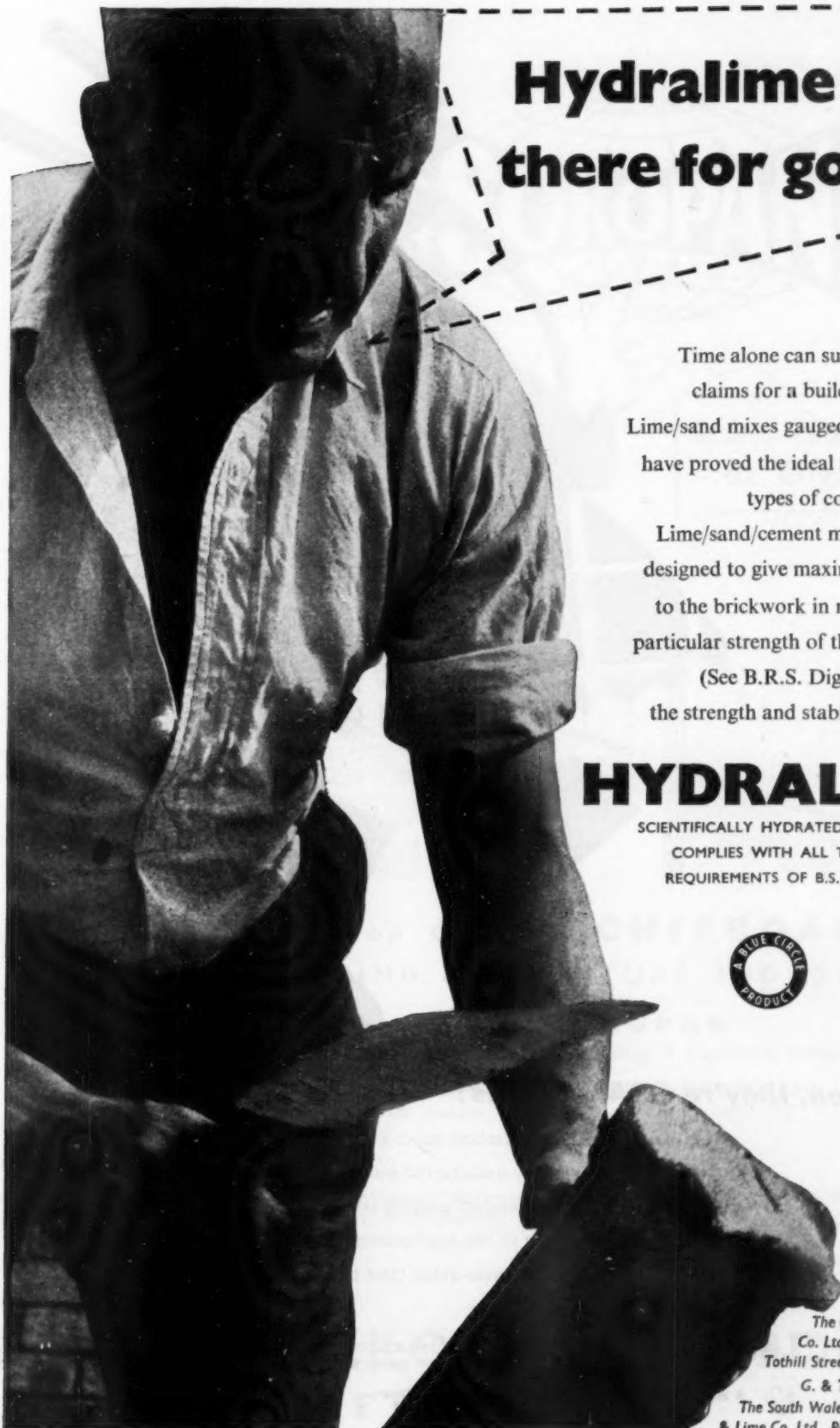
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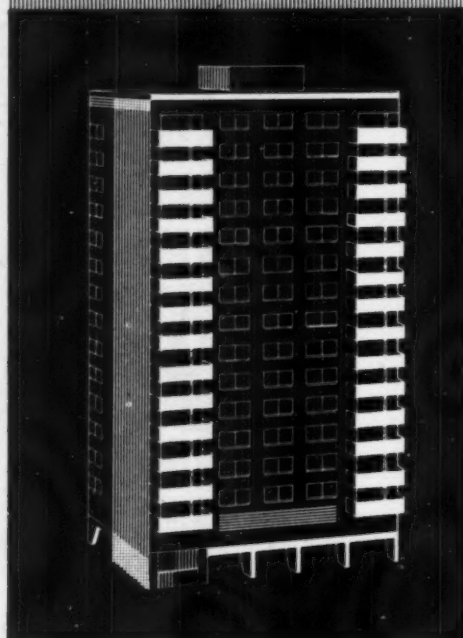
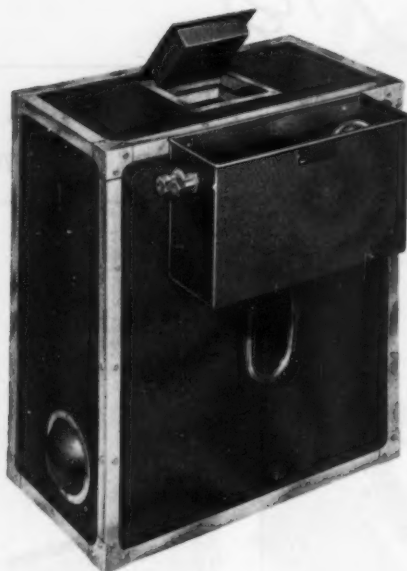
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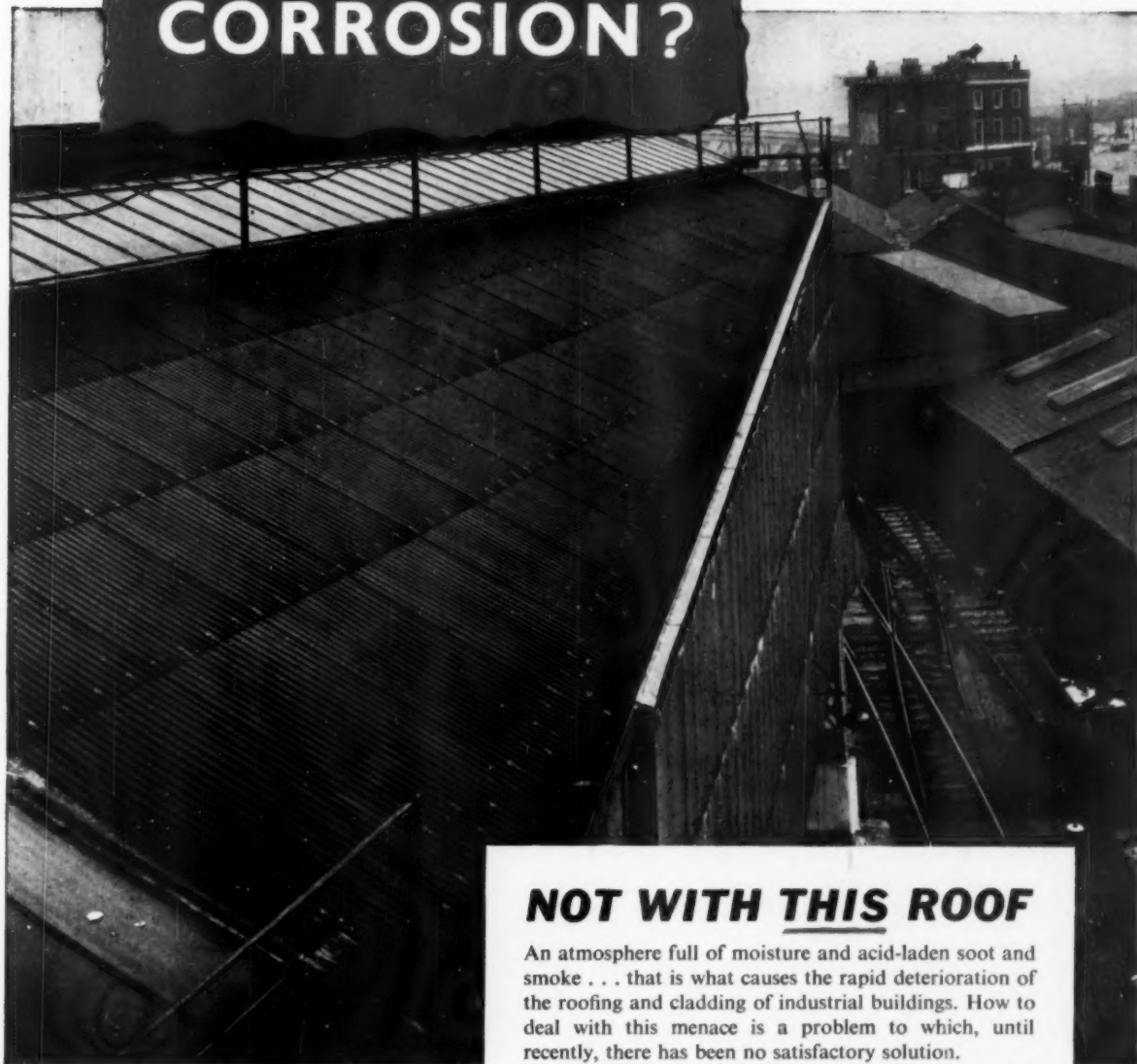
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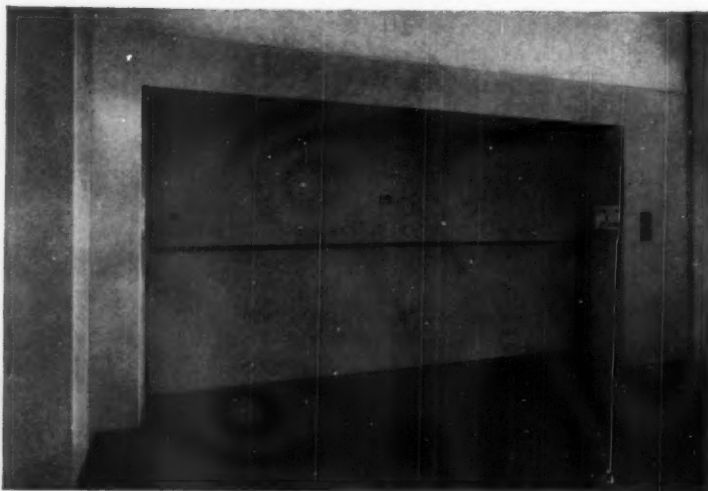


There's a **BOLTON** *lift door...*



Bolton Patent Shutter Doors for lifts, illustrated above, embody all the well-known quality features of the industrial door and are available for hand or power operation.

Vertical Sliding Bi-parting Doors, illustrated below, slide above and below the lift car giving an unrestricted opening ideal for goods lifts. The upper edge of the lower panel can be reinforced to form a truckable cill of equal weight capacity to the lift.

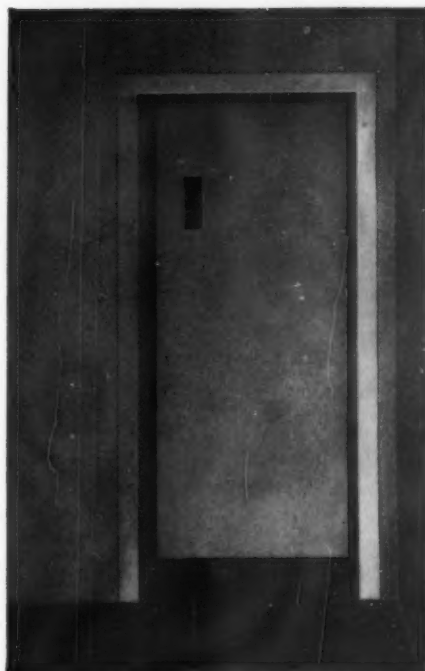


* Write now for the latest Bolton Lift Door Leaflet AB312



The power operated 2 Speed Sliding Door, illustrated left, is smooth and silent in operation and is arranged to give maximum clearance. Panels may be flush or of fluted aluminium alloy.

The power operated Single Panel Sliding Door, illustrated right, glides smoothly and quietly behind the wall allowing an unrestricted opening. Flush or alternatively fluted panels of aluminium alloy are available.



to suit your requirements

The comprehensive range of Bolton Lift Doors includes doors which are suitable for every situation, from factory goods lifts to the most modern hotel lift. The variety of finishes available is such that harmony with existing decorations can readily be achieved. All Bolton Lift Doors can be fitted with vision panels to your requirements and can be arranged to receive lift makers' lock beaks, handles, etc.



The 2 Panel Centre Opening Doors, illustrated right, are supplied with a sympathetic action gear and slide smoothly and quietly behind the wall allowing maximum clearance. A variety of finishes is available.



The Multi-leaf Door, illustrated right, is among the most popular of lift doors and is available in a variety of finishes.



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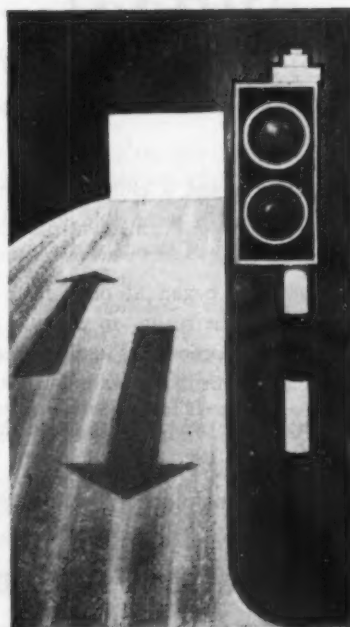


The increasing use of elevated and underground car parks, though solving the parking problem, sometimes creates problems of its own. Fortunately more and more authorities are realising that the ATE "Electro-matic" controller is the solution. This ingenious device acts as the driver's forward eye, enabling him to know exactly when to drive in or out — thus ensuring greater safety.

The "Electro-matic" controller can just as easily control traffic in works precincts too, at level crossings, or at any point where private road or rail movements conflict; in fact, wherever there is traffic.

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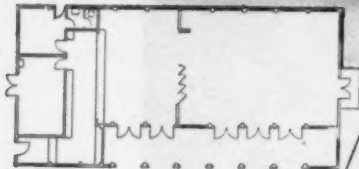
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speed...
economy...



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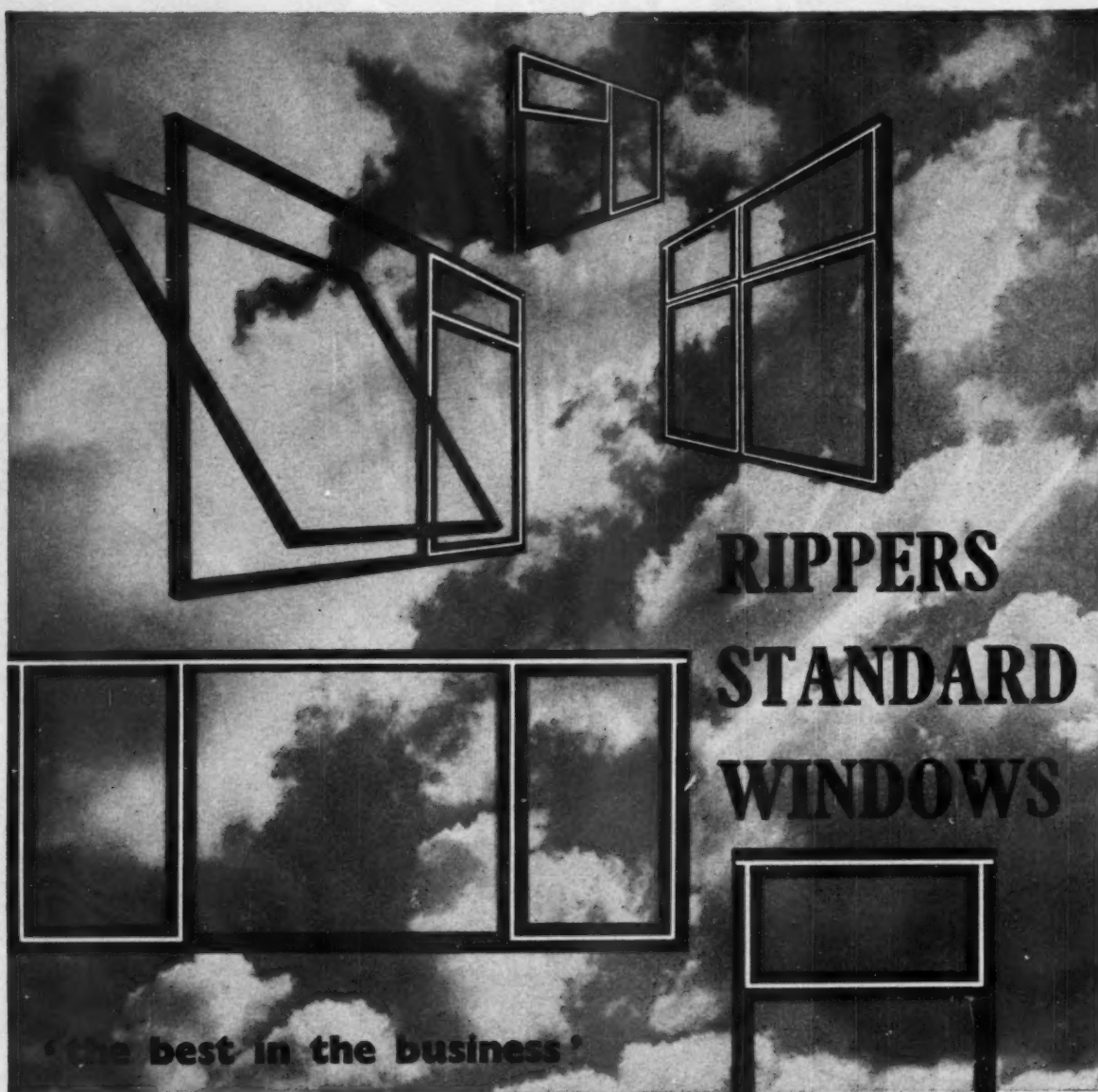
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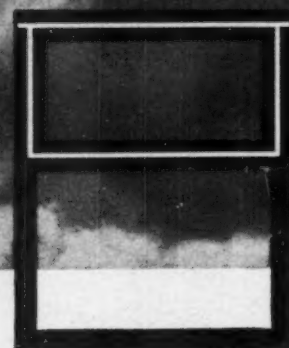
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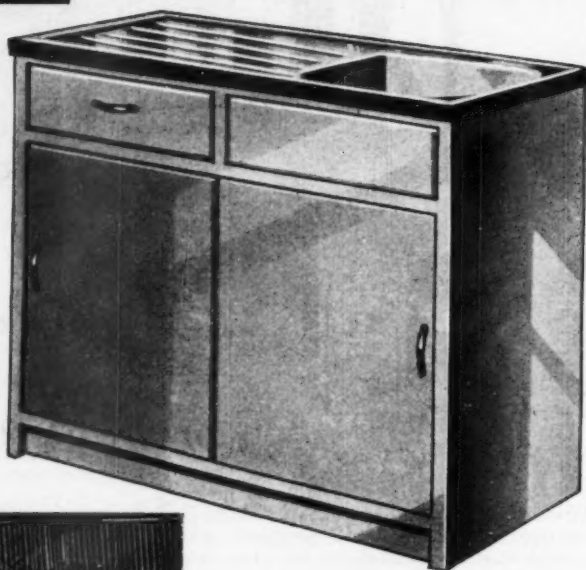
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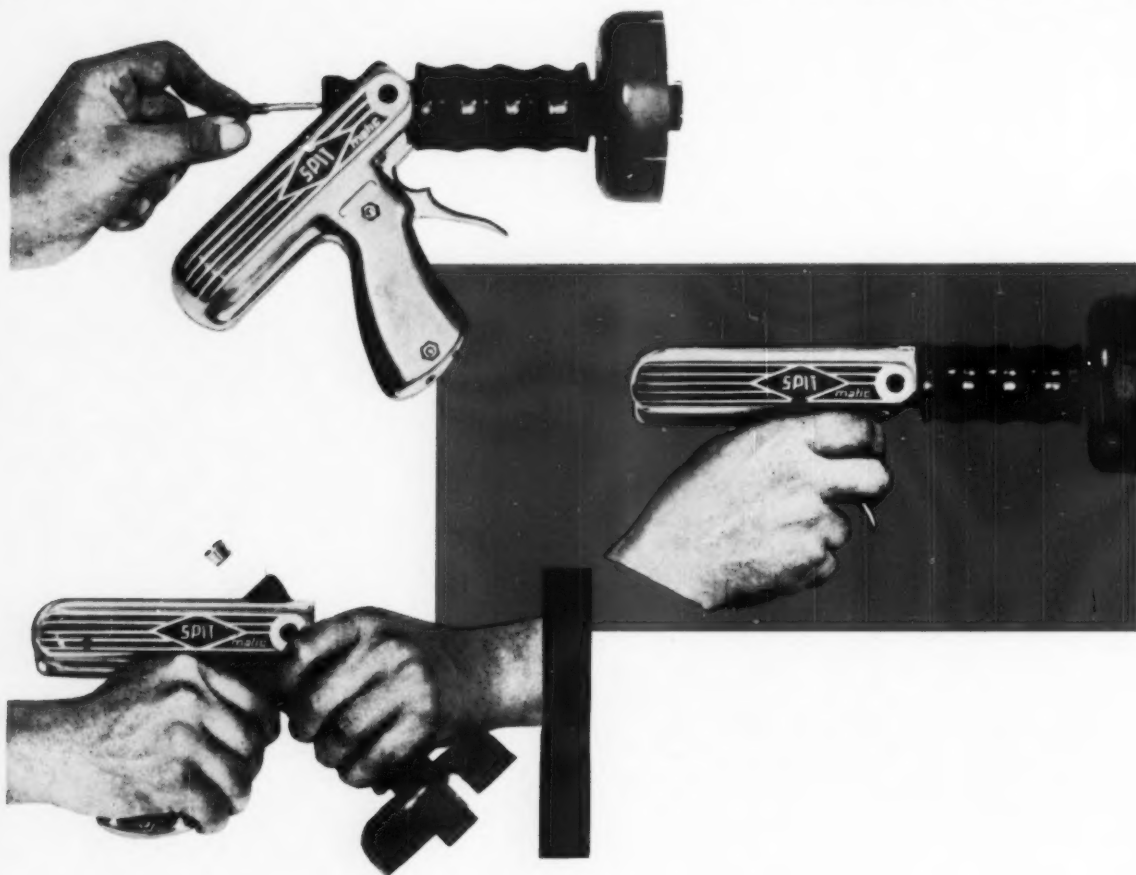
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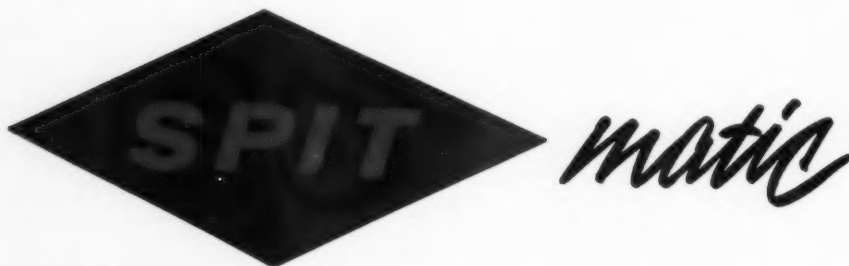
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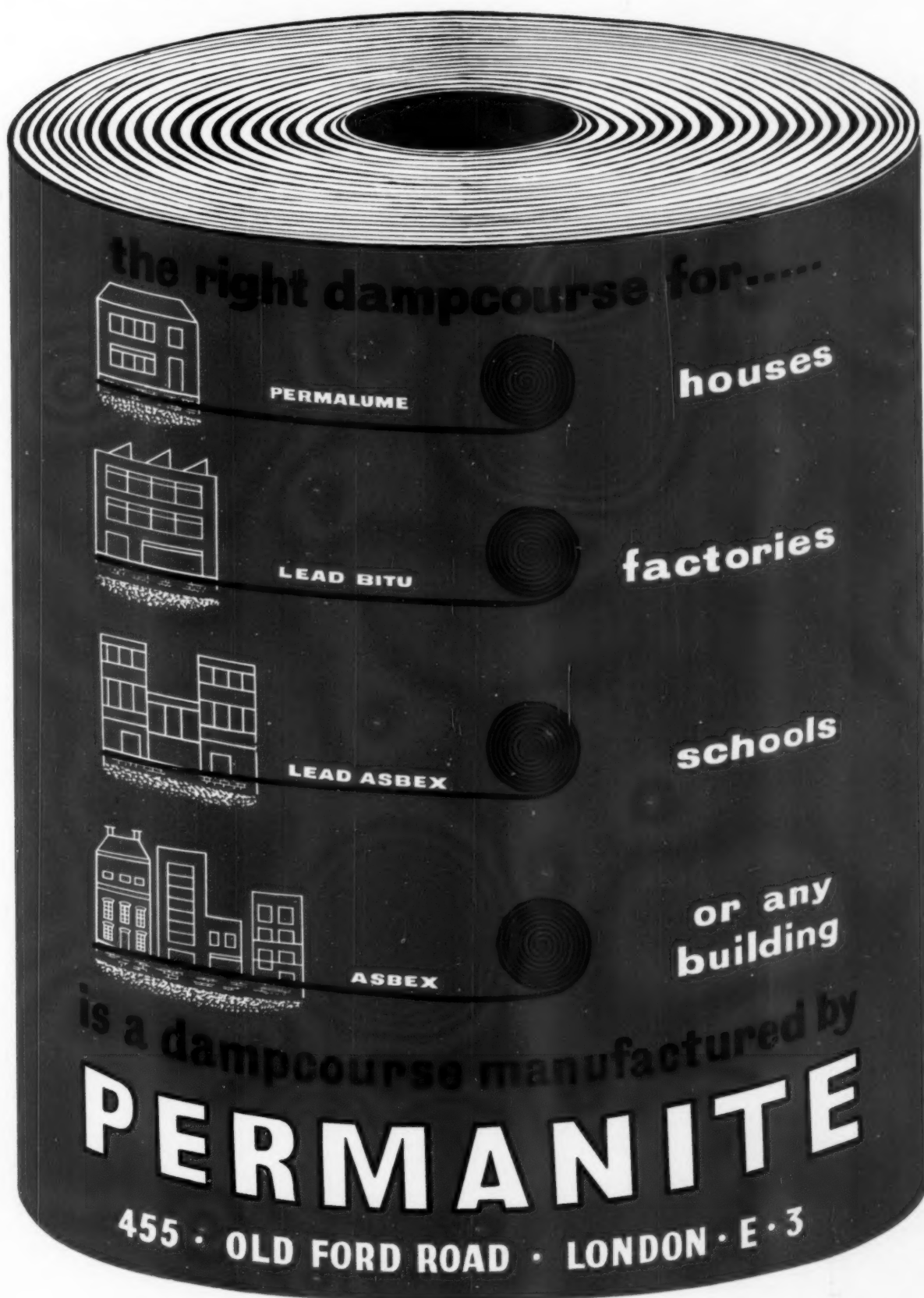
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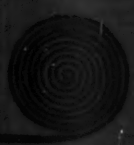


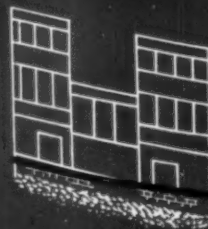


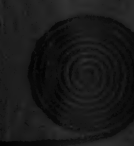


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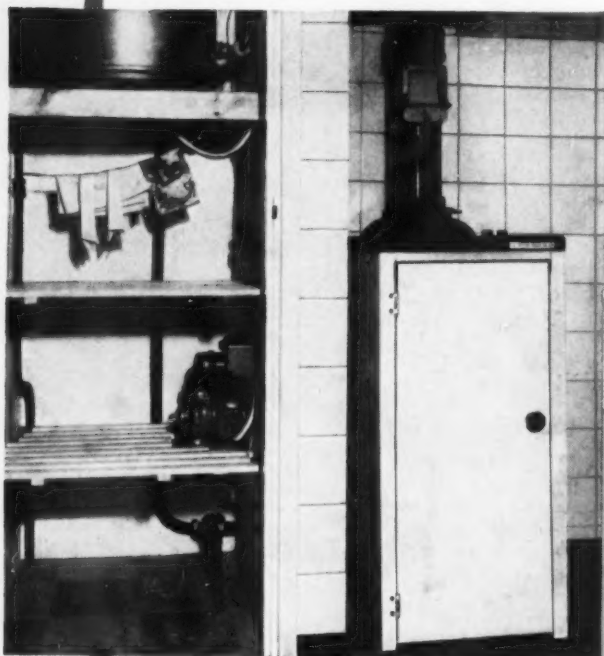
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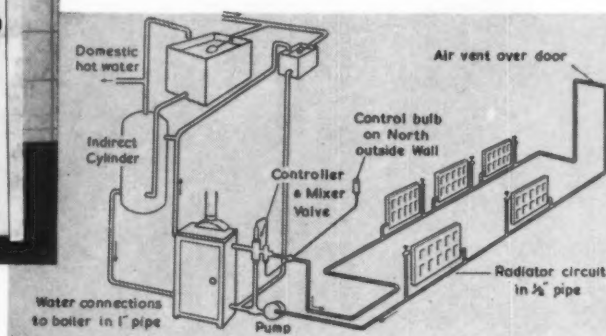
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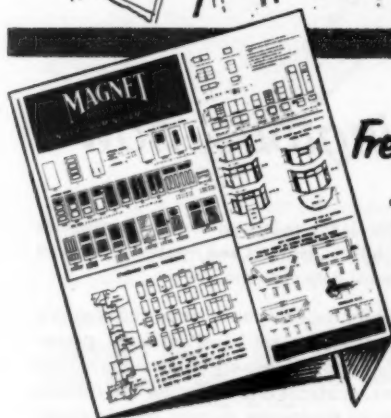
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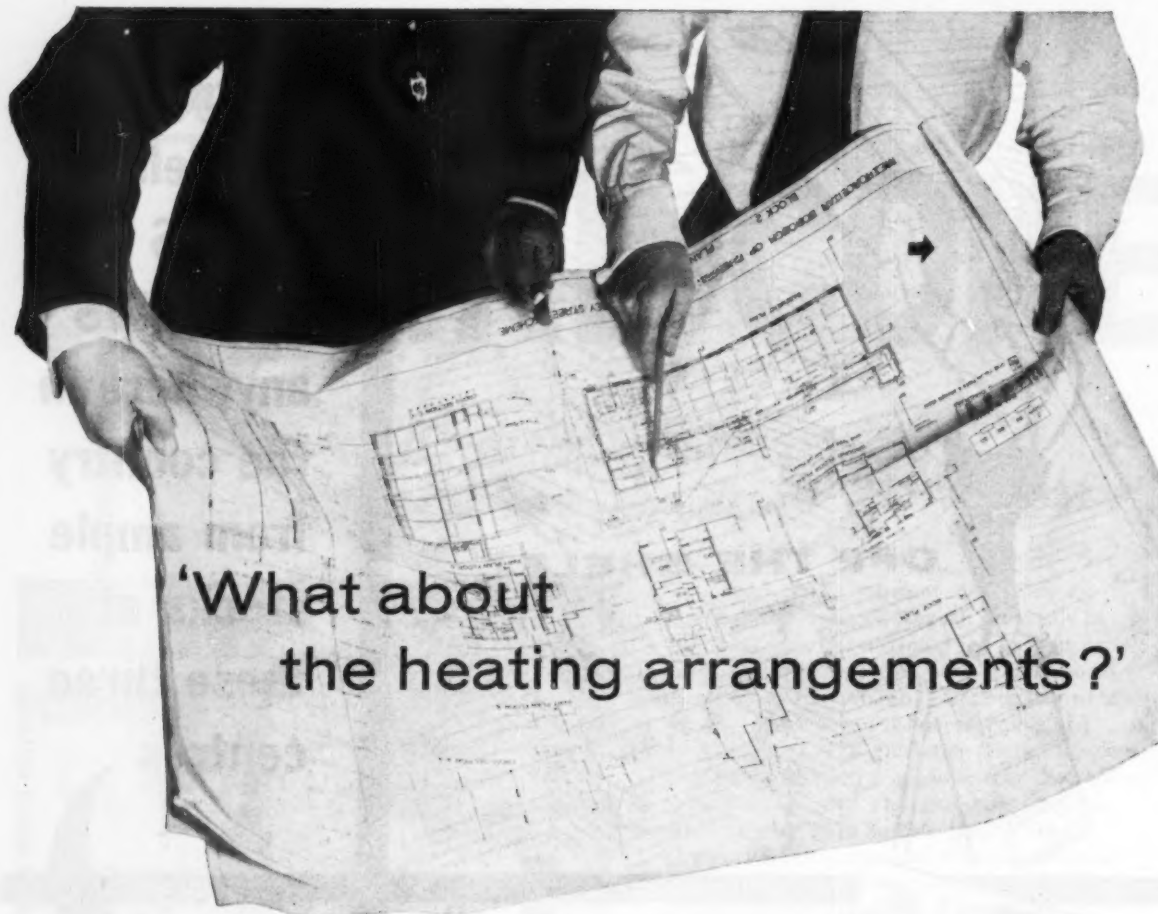
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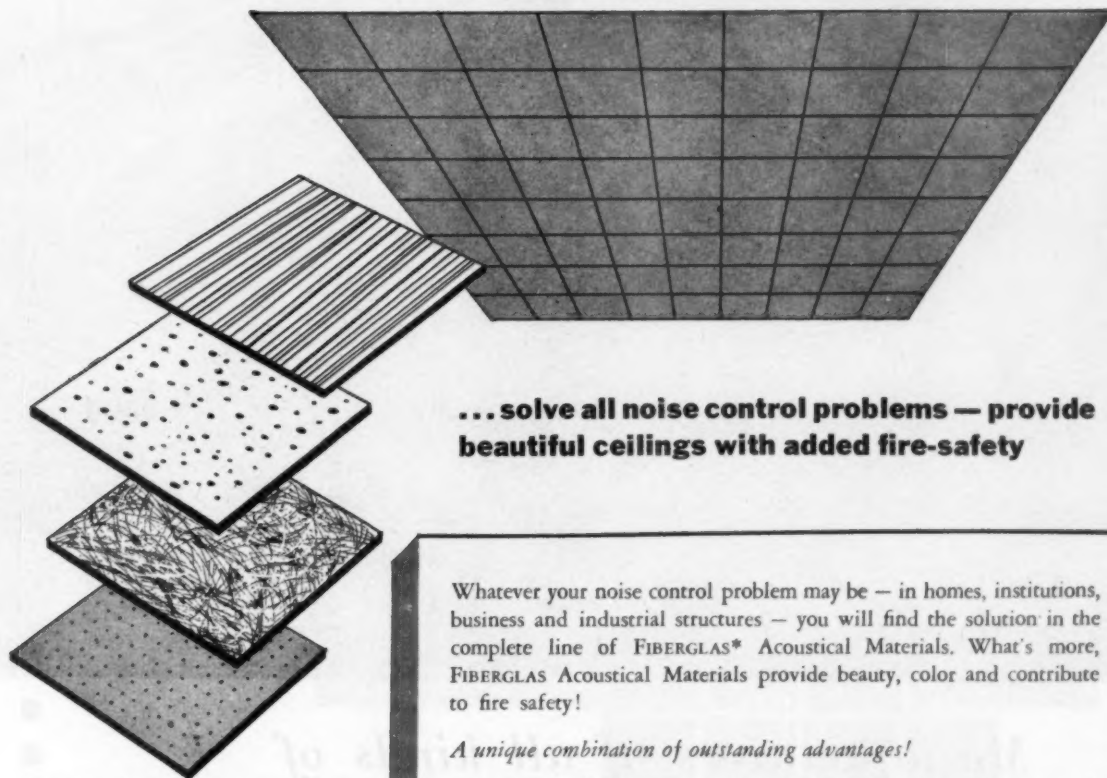


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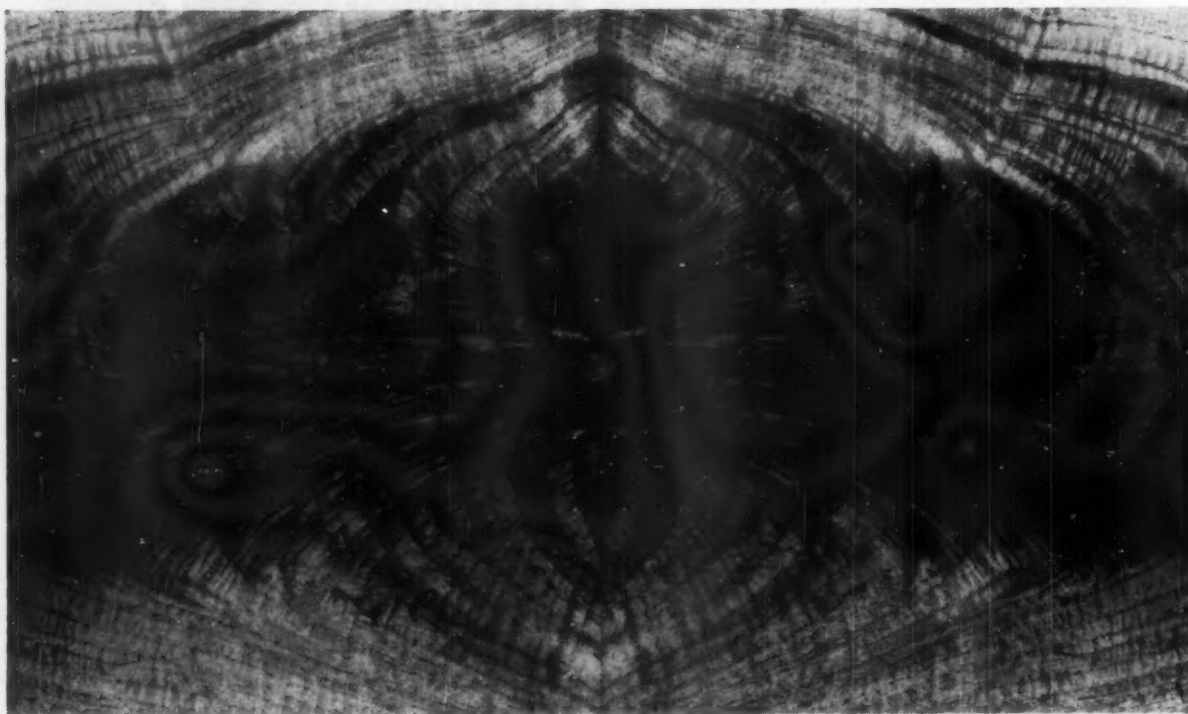
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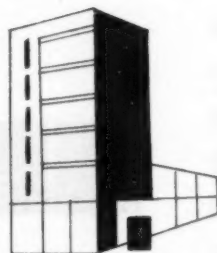
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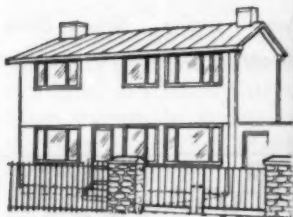
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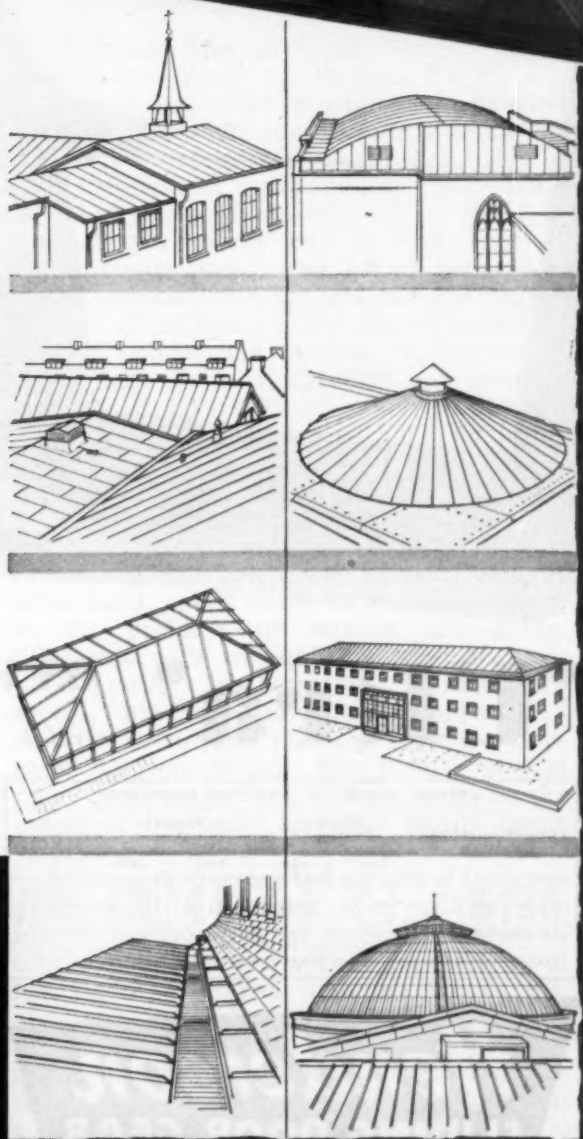
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11 November 1959

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NEGATIVE RESPONSE

THE report of Sir Arton Wilson, summarized in another column*, serves to emphasize, once more, the urgent and growing need for major changes in planning policy. Sir Arton's report shows, among other things, the serious failure of planning authorities, both local and ministerial, to make proper provision for caravan sites. Indeed, until very recently, the Ministry of Housing was apt smugly to remark, in decision letters, that caravans were a sub-standard form of living accommodation and to be deplored accordingly. This attitude, happily it seems now ended, avoided the whole problem now so clearly set out in the report.

This tendency to take a negative and restrictive attitude on the one hand while totally failing to take, or effectively to encourage, any positive measures on the other is, at present, the outstanding feature of Ministry and local authority policies alike. The same tendency can be seen at work in at least two other spheres.

Great support is being given, and no doubt rightly, to the Green Belt doctrine. Local planning authorities are refusing as a result to allow building over very large areas of land, especially in Southern England where the pressure on land is greatest. Very large numbers of planning applications are in consequence rejected.

Yet no one with any knowledge of affairs suggests that the huge and continuing demand for land is illusory or unreal. Indeed, it has been expressly recognized by the Permanent Secretary to the Ministry of Housing and Local Government, Dame Evelyn Sharp, in a recent speech to the Town and Country Planning Association. It has also been stressed by Mr. J. R. James, Deputy-Director

of Technical Services to the Ministry in an address some weeks ago to the C.P.R.E.

Nevertheless, while recognizing the demand for land, and refusing to satisfy it in the Green Belts, no provision has been made to meet the demand, especially for housing land, in other parts of the country. "With an expanding economy and a high level of employment, people can afford better and more spacious housing, *and will continue to demand it*", as Dame Evelyn herself remarked. The growth in the number of households emphasizes the need for land for housing. Further, as Dame Evelyn pointed out, "the pressure has been increasing from other causes also".

So far no effective steps have been taken to meet this demand either inside or outside towns; as witness: the alarming rise in the cost of building land, due to scarcity value. On the other hand, public efforts to provide solutions to the problem are equally uninspiring. "Progress with overspill by way of town development," the Permanent Secretary observed, "has been disappointingly slow. . . ." And this seven years since the Town Development Act was passed. She points out that many great towns "are backing down on the policy of overspill" and that hardly seems surprising.

All these matters are but aspects of the same problem. It is, of course, a very difficult one indeed to solve. All the restrictive aspects of official policy to deal with it are working at full vigour. Positive steps are grossly disappointing. It is becoming daily more urgent that something effective should be done. It is not sufficient to continue to remark upon the difficulties. Both inside and outside towns action is needed.

EVENTS AND COMMENTS

STORM IN A "CUPPA"

Mr. Basil Spence was, I thought, rather subdued when he gave the inaugural address to his second year of office at the R.I.B.A. He spoke earnestly and quietly, but without his usual fire. His paper, reproduced elsewhere in this issue, called for unity, and in particular for unity with the Institution of Civil Engineers on the question of motorways in cities. Mr. Spence spoke of the dangers to townspeople of the high-level motor road and of the responsibilities of all those professional organizations concerned in any way with the use of land. He suggested the formation of a top-level committee of their presidents and secretaries, meeting, perhaps, quarterly. This is a good idea and should be adopted.

The president then went out of his way to bring in the R.I.B.A. Journal and to rebuke the editor publicly for using the word "cuppa" in a caption to a photograph in the August issue. This was, I thought, rather a petty thing to do. Surely, if the point had to be taken up at all, it should have been an internal affair? After all, the president's address was about unity. It made me feel that perhaps the rather puerile "Anti-Ugly" demonstration in Portland Place before the meeting may have had some very slight justifications.

The demonstrators, as usual, drew the TV cameras. They distributed a broadsheet bearing dozens of questions under the heading, "The R.I.B.A., Guilty or Not Guilty?" Many of the questions were stupid and showed complete ignorance of the subject. It is odd that the "Anti-Uglies" who approve of Basil Spence's architecture should choose the day of his inaugural address to attack the institute of which he is the distinguished president.

The "Anti-Ugly" movement will strangle itself if it carries on in this ill-informed way. By all means let its members demonstrate against outrage and bad building—such live criticism is only a matter of opinion anyway and while doing no harm may do some good. On matters of fact the movement should be more careful.

WOODWORM, DRY ROT, RATS AND MICE

Do you suffer from any or all of these complaints? If you are not sure a visit to the newly opened Woodworm and Dry Rot Centre and Pest Advisory Centre in Dover Street will keep you awake at nights wondering, for the exhibits are terrifying. The centre is taken over by Rentokil Ltd. and the British Ratin Service, although I could find no reference to these firms in the Press statement.

BUILDING MATTERS

The B.B.C.'s Network Three programme for the building industry is to continue for at least another twelve weeks after the present series ends. This is good news. A programme of this kind needs time to settle down and to collect its audience. There was, at first, some sharpish criticism of the form and content of the programme, but this has given way to at least some expressions of satisfaction. I still find the programme

interesting, but many of the voices are dull. It seems that experts are very seldom good speakers and this makes some of them almost impossible to listen to. I wonder whether a set panel of good speakers would not be better. The experts could still be consulted.

The recent discussion on the "All-in" system between Grenfell Baines and H. F. R. Catherwood was between experts who were also good speakers, but the item was not entirely successful. Both seemed to me to be struggling in the folds of a thick curtain. Catherwood and the system came off better than architect Grenfell Baines, however, who was on the defensive from the start. Nevertheless, even if it could have been better done I have heard more people talking about it than about any other item in the series so far. The fact that to get the best of Baines you need to see him talking seems to underline the contention that "Building Matters" will only attain its true importance as a television programme.

BETTER LIVING FOR SOLDIERS

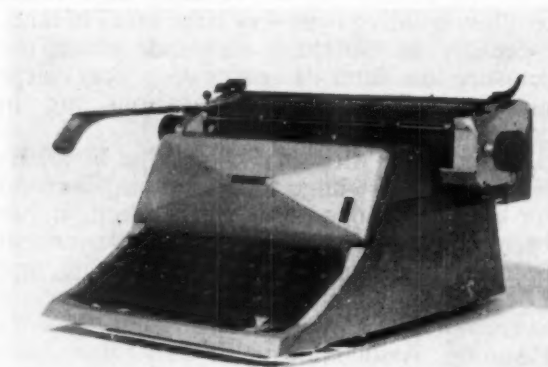
The Director-General of Works, at the War Office, better known as Mr. Donald Gibson, is carrying out experiments with barrack-room accommodation. Two four-man rooms and a room for an N.C.O. have been fitted up in existing accommodation at Wellington Barracks. The object of the exercise, as they say in military circles, is, obviously, to make the soldiers more comfortable. My pictures show the general idea. Alternative methods of dealing with beds are being tried out. In one room they fold into the wall, in the other, divan beds become settees by day.

Soldiers may now "perform their ablutions" in their rooms. Adequate storage space is provided for kit, there is a table for writing, proper lighting for reading and points for radio and shaver. The whole thing is admirable, but surely it will cost the earth? However, it is good to see that the Army is thinking in this way, having evidently abandoned the theory that you must be uncomfortable—though making the best of it, of course—to be a good soldier.

WHITHER INDUSTRIAL DESIGN?

For several years we have looked towards Olivetti for the latest thing in typewriters. Skilful advertising has backed the evidence of our eyes that this streamlining, now widely copied by other manufacturers, this slimness of line and those smooth, subtly curved surfaces were all essential to the modern typewriter. Apparently

The new Olivetti model 82



we were wrong. The latest Olivetti machine, the "Diaspron", is all angles. Heavy and square, it looks like a piece of German military equipment. We are told that this is the new fashion. So all this talk of fitness for purpose, and so on, in industrial design, is really ad-man's bunk, and the Design Centre a fashion house! Well, it makes a nice change, as they say.

WAITING FOR THE DOCTOR

It is surprising that no play has yet been set in a doctor's waiting-room. Dim light, packed bodies balancing on hard chairs or coffee stools, hoarse whispers, the one in the corner who really is ill, sniffs, throat-clearings, sighs and tooth-sucking, the awful silences broken by children's peculiarly personal criticisms of other patients, and the earnest conversations, oblivious of the closely listening company. All this ruled by the invisible executioner, with his inexorable cry of "Next". No set would be required, for the room is familiar to everyone, but one of its essentials is that it should be too small. I sometimes wonder whether doctors keep their waiting-rooms as unattractive as possible to keep patients away—I mean National Health service doctors, for, in Harley Street, things are intended to be very different, although the results are much the same. There you find a highly refined silence, huge, hideous armchairs, dim pictures and bogus bog-oak dining tables groaning under a load of out-of-date magazines of the dreariest kind. In my youth, I thought these vast, prim rooms were the doctor's dining rooms, perhaps originally they were and the style of furnishing has lingered on. The C.o.I.D., in a small exhibition at the Design Centre, has shown that such things need not be. A doctor's waiting-room can, and should be, bright, cheerful and serviceable. Diana Rowntree has designed a pleasant and convenient waiting-room which forms part of a consulting-room suite for a two-doctor partnership.

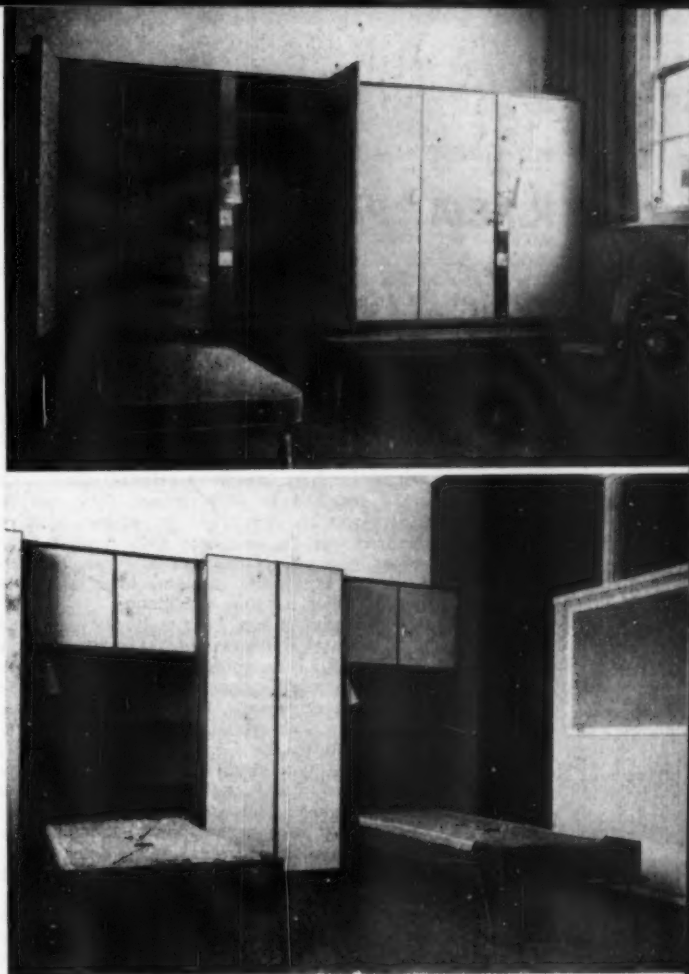
Easily cleaned material and gay colours have been used. Mrs. Rowntree has provided various points of interest in the way of stuffed fish, boxes of butterflies and pictures to revive the patient's drooping spirits. In place of the usual magazine table she has a central "tree" of small shelves, which is more decorative and takes up less space. The receptionist's office is planned as part of the waiting-room and this would, no doubt, help to give the patients the feeling that they had not been forgotten. Clive Latimer planned the suite and carried out the furnishing of the consulting and examination rooms. The general effect is neat, comfortable and efficient-looking. Doctors, I think, owe us something better than brown paint and worn linoleum, and I hope that those who are contemplating an improvement in their consulting-rooms will visit this exhibition.

1960 FURNITURE EXHIBITION

I hear that the 1960 Furniture Exhibition, which opens to the public on January 27 for ten days, will be the biggest public display of furniture yet held in this country, and, for the first time, part of the first floor will be used as well as the ground floor at Earls Court. The theme of the 1960 exhibition is to be, "Furnishing to a Budget", and different designers will show how a series of rooms may be furnished on varying amounts of money. This seems to me a good idea, and one which should be of real interest to the public.

Misha Black will be responsible again for the general lay-out of the public exhibition. There will also be the usual section for trade buyers only.

ABNER



Two rooms, for four men each, at Wellington Barracks, fitted with new furniture in an experiment by architects A. M. Gear and Associates at the instigation of the Director-General of Works, War Office. Top, locker units with a combination of side-hung and folding-sliding doors; below, another room with tip-up beds, lowered to reveal shelving, adjustable reading lamp, and electric point for dry shave or radio

Letter to the Editor

Monico Site Redevelopment

Sir,—It must be the opinion of all who value the cultural heritage of this country that, from available evidence, the proposed development of Piccadilly Circus represents the most humiliating depth to which our urban architecture has sunk. (See page 391 last week's issue.)

That such a building, embodying taste and judgment equal to that of average suburban real estate, should even be contemplated in this unique central area of the capital city is shameful evidence of the cheapening values of our culture.

The developers are destroying more than the friendly and uncontrived gaiety of "the Circus". They are thrusting in our faces the fact that there is no sanctuary from the dictates of a degenerate commercialism allied with an architecture devoid of aesthetic and social conscience.

Yours, etc.,

Head of Department: ERIC BROWN

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R. N. B. JONES (first year)
ROLLIN SCHLICHT (second year)
MARTIN W. W. CROWLEY
(third year)
HARVEY J. S. ALAN,
(fourth year)

Department of Architecture, Kingston School of Art.

ROYAL INSTITUTE OF BRITISH ARCHITECTS

R.I.B.A. President's Address*Basil Spence's speech at the Inaugural Meeting of the new session*

MINISTERS, Ladies and Gentlemen. As custom has it, the president, at this time of year, rears his head and utters. As you know, this is his moment, however reluctant he may be. He can say what he likes. A president's autumn ramble, as it were, which is certainly appropriate in my case as I am now approaching my last half year of office.

Of course, these rambles can be a relaxed affair with sage observations couched in witty terms; they can be a lecture on architecture illustrated by slides—a most hazardous enterprise—or, in character with rambles, one can throw pebbles in pools. I did this last year, but this time I would like to speak my thoughts after almost a year and a half of office as your president.

I need hardly say that it has been a busy time, even apart from the normal business of keeping a large organization like the R.I.B.A. going. We have intensified the struggle for a correct recognition of the architect's status—a status, I am convinced, that is far below that enjoyed by architects in Switzerland and Scandinavia.

We have had a visit to the Continent of Africa, and as I have already told you about this, I will not cover the same ground again. I will, however, remind you of my strongest impression. The architects in Africa are like you and me, many have been trained here or under a system very close to ours, and what I can never forget is their unsatiable thirst for a closer relationship with the mother institute.

In the 18 months' work, perhaps the one single question that stands out clearly in my mind is our struggle to get the architect's point of view recognized in connection with the new motor roads and especially when they make their impact in the towns.

I am glad to say that in this connection, the problem of the motor road in cities is the subject of our next joint meeting with our friends the Civils, when Frederick Gibberd will deliver a paper on the architects' point of view and Rowland Nicholas on the engineers'. The meeting will take place here on Tuesday, March 15.

I am, of course, delighted that this has been arranged as a serious misunderstanding existed between the Civils and ourselves.

Impact of Motor Roads on Cities

As you know we are concerned about the impact of these motor roads on our cities, as, without sufficient forethought from all points of view, engineering, as well as architectural, the results may well be disastrous. This is clearly obvious from examples already in existence in other parts of the world. We think we should be represented on the regional committees recently set up to consider the problem. We wish to express an opinion—that is all. There is no doubt that if some machinery existed so that a question like this could be thrashed out beforehand with our sister institutions, it would be a great benefit. It is obviously bad for institutions like ours to have an argument almost in public. But the motor road question does not only concern the engineer and architect. I firmly believe that the town planners are seriously implicated, to say nothing of the surveyors and landscape architects.

This address coincides with the opening of the first of the great motorways. This is the beginning of an era which recognizes the motor-car as an important element of modern life. An artery goes from London to Birmingham and little microbes will course along this vein with practically no hindrance except when the bug reaches Birmingham or London. The engineer is ready to tackle this problem and do it for a price. It is exactly this price that concerns me.

But what of the motorway? As an adventure, it thrills me, and here I can speak personally as these ribbons of black silk thrown across the country are a great achievement both from the design and constructional point of view. I know I can now get to Coventry without the awful frustrations of the A5 with hazardous passing, only to be obstructed by some heavily laden lorry trying doggedly to pass another—both going at snail's pace. This will all be gone.

An architect cannot contribute much when a route like this is planned. I think the landscape architect and the surveyor are the people who can help most. But architects can be concerned and interested with the question of bridges. I had hoped to welcome to this gathering Sir Alan Quatermaine, an eminent engineer and a past-president of the Institute of Civil Engineers, but he was prevented from coming as the Civils have a similar function today. I got to know him well when I was a member of a small committee of the Royal Fine Art Commission which dealt with new bridges. Sir Alan was chairman and I can testify to his sincere thought, hard work and concern with the design of so many of the new bridges.

We are all in this together. On a normal building contract an architect cannot do a good job without the collaboration and help of an engineer. When it comes to bridges, the architect, who is in a secondary role, can also help, but not just to apply a skin of architecture, like butter to bread. In the Royal Fine Art Commission, we try to show that the collaboration should be sought at the earliest stage, exactly as architects now insist that on a building project collaboration should exist between him and the engineer at the earliest moment. For myself, I always do this, and it is good business.

Sir Owen's Bridges

Of course, there are exceptions. I contend that Sir Owen Williams' bridges on the new roads are exceptions. I have just been in Rome and, aesthetically, these bridges, with their breadth and strength, remind me of some of the great Roman works. In any case, who would dare to interfere with Sir Owen Williams? His bridges are a positive statement aesthetically and that is good enough for me.

But I am concerned with the many new bridges going to be put up all over the country, where one cannot expect, and will not get, a positive statement without help. This is so, as I have seen many hundreds of bridge designs submitted to the Royal Fine Art Commission which have been improved immeasurably when the right architect consultant has come to the help of the engineer. I must mention here one architect who has been most successful in this respect—Mr. Arthur Bailey, who has advised Scott and Wilson, Kirkpatrick, and their partnership has yielded some excellent solutions.

This is only one instance when an engineer can call on an architect to help him. The problem that looms large is where the motor road hits the city and infuses into it at a point an unusually large volume of traffic. There is, of course, the straight engineering solution. We have seen some of the results in other parts of the world. I suggest it would spell disaster here. This is, I am certain, a planning problem which has so many facets that it would take too long to enumerate them. But as architects we are most concerned on the aesthetic and architectural side. I hate the destruction of beautiful buildings, of precincts of lovely architecture; I deplore the creation of hopeless building sites by the superimposition of an unsympathetic road plan. I dislike the imposition of an elevated roadway if (as in some cases in America) it cuts

a community in half and the houses adjoining have an arch for a vista from the living rooms and all those who pass on the carriageway can see into the bedrooms. I believe that the elevated carriageway will have to be accepted and it constitutes a challenge. Furthermore, I believe that the new motorways coming into cities can be the reason for much urban renewal and can create great opportunities to make our cities safer, better places to live in and much more beautiful. This, I hope, is the field of our future collaboration.

It is a deplorable fact that no official machinery exists so that a question like this can be thrashed out on a professional level. It is bad for the technical professions to bicker in public. We are probably entering one of the most exciting periods as far as construction is concerned, and great opportunities will arise which cannot be honestly turned to advantage by one profession working in a vacuum, perhaps calling on another when it finds itself in a jam. There should be some means whereby we all can meet and thrash out the best way to do the best job. To my mind it requires a super council of all the presidents and secretaries of the institutions who have common interests, to meet together periodically to search for common ground for agreement.

A Higher Council

I would like to suggest that the question can be explored of the formation of a higher council composed of the presidents and secretaries of the Civil Engineers, the Structuralists, the Town Planning Institute, the Institute of Chartered Surveyors and the Institute of Landscape Architects along with ourselves. This council could meet perhaps quarterly, or whenever necessary, and take it in turns for chairmanship. The object—to make Britain a better place to live in and to control the motor-car and not let it control us.

I can see much useful work for a higher council of this character. The technical professions should then move in the same direction, eliminating much of the friction which exists today. This council could hold itself in readiness to help the Ministries with their many problems, should it be asked to do so.

The theme of this address is, of course, unity. I think that is patently obvious, and I hope our guests will forgive me when I turn to a more domestic matter.

We have almost 19,000 architects scattered over the globe—architects who are members of this institute. They all pay their subscriptions—eventually! Many of the issues discussed in our council are domestic ones, almost exclusive to these islands we live in. One cannot help

asking, "What do the members overseas get for their money?"

I was asked this several times when I visited Africa. It is true to say that the letters A.R.I.B.A. and F.R.I.B.A. at the moment carry sufficient weight to warrant a subscription and, of course, this carries with it the R.I.B.A. Journal which is sent to every member of the institute each month. I have heard many criticisms of our journal during my period as president. But I must say, criticism is completely lacking overseas, rather the other way, as our members in Africa were most generous in their praise of the journal. The points made were, first, that it was truly a periodical issued by a learned institution—we must preserve this. Recently, I received a letter from a senior member of the institute complaining that in a recent number the word "cuppa" was used in a caption under a photograph of the last secretary, Bill Spragg, having tea with two members at the garden party during the Cardiff Conference. I must say I agree with him—what is wrong with "A cup of tea"?

Secondly, they liked the format and the way the monthly business was reported.

Thirdly, it always carried something of interest apart from the normal business report and the impression I got was that it was read from cover to cover.

But to my mind, this is not enough. Many things can be done to bring our members closer together. For instance, I would like film strips of our exhibitions, with a description sent to all our allied societies overseas and the remote areas in this country. I know these would be well received and used. But the main point I want to make is that we should discuss with our members overseas the real problems of the institute as they affect all our members.

We have set up a Commonwealth Committee for this purpose, but this is only the beginning. I am certain that we should have a yearly conference, when delegates from the African Continent, New Zealand, Australia, Canada, India, Singapore, Hongkong, and all allied societies, together with representatives from the R.I.B.A. Council, should meet at some delightful place and for a week discuss problems and enjoy themselves.

We should, of course, have our first conference here in London, but after that I can imagine a most delightful succession of meeting places—Paris, Rome, Florence, Venice, Seville, Copenhagen, Stockholm, Athens, and, imagine it, a conference on one of those delightful Greek islands like Mikenos where, in the sunshine amongst the flowers and food and wine and gentle hospitality of the Greeks, our problems can be discussed.

The new Ship Hydrodynamic Laboratory, D.S.I.R., Feltham, Middlesex, designed by M.O.W. superintending architect H. A. Snow. General contractors: Sir Robert McAlpine & Sons, Co. Ltd. The building will be reviewed in a future issue



NEWS

150,000 Live in Caravans,
But Four Out of Five Want Houses

A report on the problems of residential caravanning made to the Minister of Housing and Local Government, Mr. Henry Brooke, and published today as a White Paper,* concludes that there are about 60,000 caravan homes in England and Wales occupied by about 150,000 people and that these numbers are not likely to diminish in the near future.

The report is the result of a fact-finding investigation conducted, at the Minister's request, by Sir Arton Wilson, K.B.E., C.B., formerly Permanent Secretary of the Ministry of Pensions. It does not deal with holiday caravanning or with caravans used by gypsies or vagrants.

Sir Arton, who for certain aspects of the investigation had the help of a special inquiry carried out by the Social Survey Division of the Central Office of Information, concludes that in the main, caravan homes are situated in rural or semi-rural locations on the fringes of expanding industrial areas and in favoured retirement districts. He describes the caravan dwellers as mainly young or youngish married couples, often with small children, including a "sizeable number" of industrial workers who come from other parts of the country to take new jobs. Most of them, about 80 per cent, hope one day to move into houses or flats, and "live in caravans because they could not get other dwellings in the right places or on the right terms, or because caravans meet their need for cheapness, convenience or mobility".

The typical residential caravanner, says the report, owns his caravan—acquiring it by hire purchase. Prices for a fully or partly furnished van range from £360 to £2,000, but the average total price paid on hire purchase, taking new and secondhand vans together, is £500. The average down-payment is £140 and the average weekly instalment is £3 3s. The weekly rents charged by site operators for pitches average 15s 6d over the country as a whole and 23s near London.

The report draws attention to deficiencies in many of the caravans, and caravan sites, as places for people to live. It also sets out a number of shortcomings and difficulties in the legal and practical powers of local authorities to control the starting up of sites, the conditions on the sites and the condition of caravans themselves.

Of the 60,000 residential caravans, says the report, about 38,000 are on sites for which planning permission, usually with conditions, has been given; about 12,000 have "existing use" rights; and about 10,000 are on sites "which are apparently located or operated in contravention of the Town and Country Planning Act".

Special stress is laid on the problem caused by the fact that most of the demand for caravan living arises on the outskirts of industrial centres, where green belt policy limits the amount of land available for caravan sites or for permanent housing.

Setting out the views of the interests mainly concerned, the report says that the caravanning interests press for recognition of caravanning as an acceptable way of life, and argue that if public authorities were less restrictive towards it, it would be possible to raise standards of caravans and sites. They accept a need to strengthen local authority powers to prevent abuse, but want these stronger powers to be used positively.

The local authorities mostly regard caravans as a sub-standard form of living accommodation, and one which should not be encouraged. But many of them, the report suggests, are coming to the view that some caravan-living is bound to continue for the time being, and that it would, therefore, be reasonable to accept it as a fact and try to improve it. But they consider that no material improvement can be hoped for unless there is early strengthening of their powers of control.

*Caravans as Homes, Cmd. 872, H.M.S.O., price 5s net.

Staines Bridge: The Debate Goes On

Mr. J. E. Dayton, joint managing director of the Alderton Construction Company Ltd., speaking at a press conference about the statements made in the House of Commons last Wednesday by Mr. Ernest Marples, Minister of Transport, said, in his considered view, the Minister had been seriously misled.

The Minister had said that the alternative outline scheme for the (new Staines) bridge, submitted by the Alderton Construction Co. Ltd., had been carefully considered by both the consulting engineer, who was independent, and the department's own bridge experts. In both their views the outline scheme fell far short of being a sound alternative.

To this statement, Mr. Dayton said: "We make reply that we cannot believe that our alternative scheme was 'carefully considered' because at no time were we called in to explain or discuss our scheme. Our information is that our alternative proposal was rejected out of hand."

Mr. Dayton said his company's scheme has been checked in detail by the leading experts at the University of Copenhagen, and, indeed, praised by them in the following fashion: "It is our general impression that the alternative project is up to date and the techniques available today have been utilized with skill and imagination. We find this bridge a sound piece of work and prepossessing in both the static mode of operation and structural design."

The technical experts at the University of Copenhagen had seriously criticized the official design. The Professor of Civil Engineering (Prof. P. B. Morice) at Southampton University had stated in *The Times* that he was in full agreement with his company's ideas.

An important point Mr. Dayton said they would like to clarify was that the Minister repeatedly stated:

"There were special reasons for retaining the original elevation. Once we have decided on amenity grounds that a certain type of bridge is necessary, the scope for design is eliminated by that decision. That was the limiting factor." (Col. 1013.)

"The Lutyens' bridge accords with modern design. It may be that the façade is different, but that was decided on amenity grounds. . . . Once a decision has been made on amenity grounds, rightly or wrongly, the rest flowed naturally from that decision." (Col. 1014.)

"The Royal Fine Art Commission and other people wanted a certain type of appearance because of the historical associations there. They may have been right or they may have been wrong, but they wanted it. This structure is modern but the actual façade accords with the surroundings of the district."

The point that was being glossed over in these Parliamentary replies, Mr. Dayton said, was that in their alternative they were most careful to retain the external Lutyens' façade unchanged. They merely submitted an alternative inner core to the bridge, thus saving nearly £200,000 and six months in completion time.

They had also stated that they could save a further £40,000 by substituting a modern façade, e.g., similar in appearance to Waterloo Bridge instead of the Gothic brick and stonework in the Lutyens' design.

Mr. Dayton said they welcomed the Minister's statement that "he was trying to find a panel of young consultants who had both designed and constructed bridges." As they were one of the few firms in Great Britain combining design and construction, they hoped to be given the opportunity to be of service to the Ministry.

Mr. Dayton recalled the Minister's understanding of the problem, quoting what the latter said at the Association of Consulting Engineers' dinner in April 1953:

"I suggest the time has come when design be brought into the field of competitive tendering. Up to now design and construction have been divorced, design being mainly in the hands of consultants with no natural stimulus to economy."

"What I suggest is the bold and far-reaching experiment of bringing design and construction under the same roof and under the same control—as is done so effectively in motor-cars and aircraft here and civil engineering in

America. This results in tendering for the whole problem, both design and construction."

New Hospitals: Minister Gives News

In a Parliamentary answer, the Minister of Health, Mr. Derek Walker-Smith, *q.c.*, announced that in England and Wales six new hospitals have been partially completed and are in use. Work on nine others is in progress and four are planned to start during the next financial year. In addition, one dental hospital has been completed, and two are planned to start next year. Brief details of new hospitals are:

New hospitals partially completed and in use.

Balderton Hall, near Newark, for the mentally deficient: first phase (over £1 million) completed; second being planned. Good Hope, Sutton Coldfield, General hospital: supporting facilities now being added to six ward units (£100,000) completed. Greaves Hall, Southport, for the mentally deficient: first phase 220 beds (£900,000) completed; second phase (about 490 beds) about to start; further phase planned. Princess Margaret, Swindon, General hospital: first phase completed (outpatients and casualty: £700,000), 300-bed ward block being planned. Oakwood Park, near Conway, for the mentally deficient: first phase (100 beds) completed; further work being considered. West Wales, Glangwili, General hospital: first phase, ward block and nurses' home (£500,000) complete; second phase, ward block, laboratories and outpatients (£600,000) proceeding.

New hospitals, work in progress.

Cambridge teaching hospital: outpatients and 94 beds (nearly £1 million). Crawley General hospital: outpatients, casualty and maternity departments (£300,000). Harlow General hospital: first phase, outpatients and casualty departments (£450,000). Hensingham, W. Cumberland, General hospital: first phase (£750,000); second phase being planned. Huddersfield General hospital: sitework in hand. Sheffield Teaching hospital: first phase including outpatients (£500,000). Welwyn-Hatfield General hospital: 330 beds (over £2 million). Psychiatric unit being planned. Llanfrechfor Grange, Newport, for the mentally deficient: four villas for 200 beds and other work (£450,000). Further phase planned. Singleton Park, Swansea, General hospital: first phase including outpatients and X-ray departments (£400,000). Plans for (£1 million) second phase well advanced.

In addition, work is expected to start in 1960-61 on new hospitals at: Royal Marsden, The Downs, Sutton (£750,000); Slough General hospital (a new 300-bed hospital); St. Thomas's, London (entire rebuilding £2 million); Truro General (first phase, 180 beds).

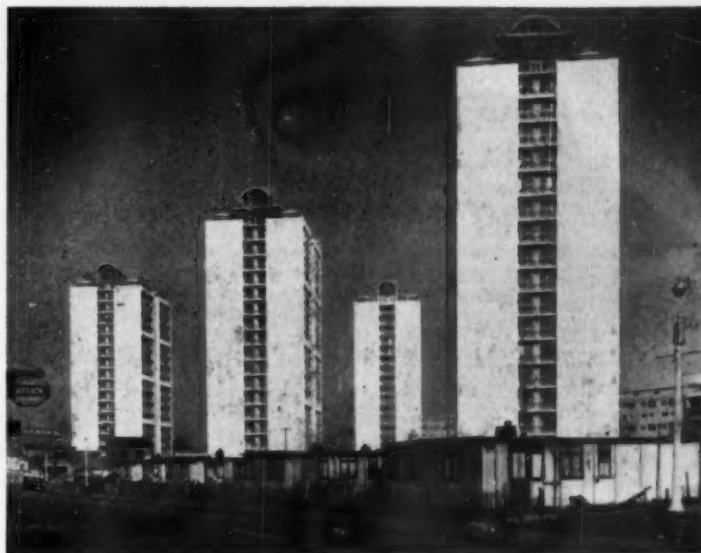
Two new dental hospitals for teaching are to be built also, at Birmingham for an intake of 80 students a year, and at University College Hospital, London (£500,000), for an intake of 50 students a year.

Loughborough College Project

A new £2 million extension programme has started at the Loughborough College of Technology, Leicestershire. Sir David Eccles, Minister of Education, has said that this is "one of the largest and most important projects in the Government's £160 million plan for technical education". When all the new buildings are ready by 1961 the college will be the largest residential technical college (there are eight colleges of advanced technology) in Great Britain.

The new buildings will consist of a "students' village", with its own shops, a six-storey science block, aeronautical and automobile engineering, nuclear engineering laboratories and a miniature factory for the students to learn production techniques.

The architects for the teaching buildings are Richard Sheppard, Robson and Partners, and for the hostel buildings, Harry Fairhurst & Son.



18-storey blocks of flats for the L.C.C.
at Brandon Estate, Southwark

R.I.B.A. Council Meeting, 3:11:59

The usual Press conference took place on the day after the council meeting. Gordon Ricketts, the new secretary, took the chair as Mr. Basil Spence was unwell. (He had not been feeling well at the inaugural meeting the night before.) Items of interest from the Press conference are reported:

Design of Garages

Members of the Design and Planning Committee of the R.I.B.A. have met representatives of the Ministry of Housing and Local Government and the Ministry have promised the following action: (1) They will consider amending the General Development Order, 1950, as soon as possible to exclude from exemption from planning permission garages on corner sites. (2) They will suggest to the Civic Trust that it includes garages in a competition that the Trust are organizing. (3) The Ministry will consider advising local authorities to follow the example of Norwich in preparing a standard design of garages, obligatory for corporation tenants, and supplied free to house owners. (4) The R.I.B.A. and the Ministry should jointly suggest to the C.o.I.D., the holding of a competition for permanent and prefabricated garages.

R.I.B.A./Ideal Home Small Houses

Over 3,000 copies of the book of winning designs have been sold. Orders are coming in at a rate of about 40 a day. So far 20 requests for sets of plans and specifications have been received. Twenty houses are being put up by selected builders in different parts of the country.

Income Survey

The sample survey of members' incomes carried out by the Royal Institute is still confidential. The Royal Commission on Doctors' and Dentists' Remuneration requested that no publication should be made of this information in advance of their own report. The Engineers' Guild have been allowed to publish their part of the survey, which was double the size of the sample the Royal Commission wanted, and the Guild paid half the cost.

Investment Policy

The council have agreed to place 50 per cent of the R.I.B.A. Trust Funds outside trustee stocks (if they are legally entitled to do so—which is being investigated) with the aim of gradually building up a strong financial reserve for the Royal Institute.

R.I.B.A. Scale of Professional Charges

The Practise Committee have been examining the question of architects' conditions of engagement and remuneration and their findings will be published later in the R.I.B.A. journal and released to the Press at the same time. The committee have been reviewing the current booklet with the object of removing ambiguities of clearing up minor points arising out of its present wording, and of investigating the possibility of increasing remuneration at the lower end of the scale.

The Oxford Conference Report

The Oxford Conference Committee's Report is about to be released to the Press, and will be referred to in a future issue.

Classification

The Council have agreed to a proposal by the Ad Hoc Committee of the Science Committee that the R.I.B.A. should prepare a "Building Filing Manual" for the United Kingdom, with recommendations as to responsibility for its production, finance and maintenance.

This manual should include classification tables, a description of the notation, a comprehensive index and guidance for use by the various branches of the building industry. The Council has also agreed to: (a) arrangements for supporting Mr. Bullivant in his capacity as secretary of the sub-committee of I.B.C.C. set up at Rotterdam to co-ordinate the production of Building Filing Manuals in the member countries of the International Council of Building (subject to the approval of the necessary finance by the Finance and House Committee); and, (b) the setting up of a model library and advice centre.

Coming Events

The Faculty of Architects and Surveyors.

November 13, at 11.30 a.m. Annual General Meeting. At 68 Gloucester Place, W.1.

November 13, at 7.30 p.m. Annual Dinner and Ball. At the Mayfair Hotel, W.1.

Joint Consultative Committee of Architects, Quantity Surveyors and Builders.

November 16, at 5.45 p.m. Open meeting to discuss the Code of Procedure for Selective Tendering. At 66 Portland Place, W.1.

Royal Institute of British Architects.

November 16, at 6 p.m. "On the Reviewing of Architectural Books", by M. S. Briggs. At 66 Portland Place, W.1.

The Ecclesiological Society.

November 16, at 6.15 p.m. General Meeting. "Norman Westminster Abbey", by H. V. Molesworth Roberts. At 2 Bloomsbury Square, W.C.1.

The Royal Institution of Chartered Surveyors.

November 17, at 7.30 p.m. Chartered Quantity Surveyors' Annual Dinner. Principal guest, the Right Hon. Lord John Hope, M.P. At Grosvenor House, Park Lane, W.1.

B.B.C. Network Three. "Building Matters".

November 17, at 7 p.m. "Conciliation Panels", by James Mills; "Building in Cold Weather", by a speaker from the Building Research Station, and "How to go around the Building Exhibition", by William Bryant and Charles Crichton.

The Housing Centre Trust.

November 17, at 6 p.m. "The Radburn Idea in Great Britain", by Paul Ritter, M.C.D., B.ARCH., A.R.I.B.A., A.M.T.P.I. At 13 Suffolk Street, Haymarket, S.W.1.

Reinforced Concrete Association.

November 18, at 6 p.m. "The design of Concrete Mixes with High Alumina Cement", by K. Newman, B.SC.(ENG.), A.M.I.C.E. At 11 Upper Belgrave Street, S.W.1.

Law and Administration

Development Plans

With the approval of the Minister of Housing and Local Government of the development plan for *Warrington*, the number of approved plans has reached 141. The *Warrington* plan was submitted to the Minister in March, 1952, and no inquiry was held. The number of plans awaiting approval is now reduced to 19.

Restrictive Trade Practices

The Restrictive Trade Practices Court has recently been making substantial progress in its work despite the lack of any spectacular events in the Court. By August last, only six cases had come to trial, but the effect of these was widespread and caused a profound change in the number of agreements which were abandoned. Of 2,200 agreements on the register on August 7, 600 had been or were being abandoned. The Registrar recently gave as an example the fact that in April and May he had sent warning letters to the parties to 100 agreements indicating that he proposed to start proceedings, and 60 of these were, in due course, abandoned.

The Registrar has said that the number of cases has been kept to so small a figure, partly because so many parties had decided to abandon an agreement rather than defend it often when the case was nearly ready for trial. He added that as many as 200 of the present registered agreements might qualify for removal from the register when carefully examined, as being of no substantial economic significance.

Lay-by or Service Road

The Town and Country Planning Act, 1954, allows compensation to be claimed when planning permission is refused or granted, subject to onerous conditions. There are, however, numerous exceptions. In particular, compensation is not payable where conditions are imposed relating to:

"(i) the manner in which any land is to be laid out for the purposes of the development, including the provision of facilities for the parking, loading, unloading or fuelling of vehicles on the land . . .

or

"(ii) the location or design of any means of access to a highway or the materials to be used in the construction thereof."

But Section 20, which makes these provisions, expressly stipulates that the expression "means of access to a highway" does not include a service road. Therefore, a condition which requires a service road to be provided can be the subject of compensation.

Developers asked for permission to build four blocks of flats at Oathall Road, Haywards Heath.

The local authority expressed anxiety whether access to the development from Oathall Road would cause traffic congestion. Accordingly to solve this problem they required the construction of a lay-by. This was to be a concreted area about 50ft long and 12ft wide on the western side of the appeal site, with access to the carriage-way by means of two ways, 12ft wide at each end.

The developers in due course claimed compensation on the grounds that they had been required to provide a service road. The simple question before the Lands Tribunal was: Is a lay-by to be regarded as a service road? The tribunal considered that this lay-by was not in any sense a road but more to be regarded as a drive to a private residence. Moreover, it was held that the exclusion relating to the provision of parking and off-loading facilities mentioned above was not to be regarded as confined to commercial premises and embraced precisely the kind of lay-by here required to be built. It followed that compensation was not payable for the imposition of the condition requiring the construction of the lay-by.



Planning for the Motor Vehicle at Basildon

by ANTHONY B. DAVIES, Chief Architect/Planner, Basildon New Town

DURING the present decade the rapidly rising standard of living in this country showed one of its principal impacts to be the vast increase in the number of motor vehicles. The private car, which had hitherto been largely a luxury for a relatively small proportion of the population, was becoming an integral part of the life of most families, and the wider distribution of money was greatly increasing the demand for goods delivered to the door by commercial vehicles. The 16ft, 18ft and 22ft carriageways of the residential streets in the new town, therefore, had to carry this increase in traffic load, thus transforming their previously quiet character into a highway of continuously moving, or alternatively jammed vehicles. At the same time, naturally, the urgent need arose for proper parking and garaging of these vehicles off the streets.

By 1954 Basildon decided that its planning, particularly in the housing areas, must recognize the general ownership and increase in motor vehicles. It was seen that with the advantages which came from more private and commercial vehicles, so also was a great increase in the disadvantages, such as noise, fumes and danger to children and pedestrians. Obviously a sociological as well as a planning problem had arisen which required solution by designing for a way of life with the motor vehicle.

Two main lines of approach were possible: one largely to exclude the motor vehicle from housing areas and to provide garaging and parking facilities at their boundaries, the other to allow the vehicles in with convenient access to each dwelling. The corporation considered the latter to be the only realistic approach, and the problem at once centred in the areas of high density terrace housing because the detached and semi-detached houses could have garages attached and their larger sites with lower density development gave adequate road frontages. This impact of the motor vehicle, however, arose when, at Basildon, we were approaching the town centre in our housing development and the layouts to be prepared from 1954 would be those in the area encircling the centre, and in which we required to raise the density of two-storey development from 11/12 dwellings to the acre to 14/16 dwellings to the acre and also to create a more urban character in the street picture. The problem of creating urbanity hinged on scale in the street picture and the conversion from the garden city street, where the land-

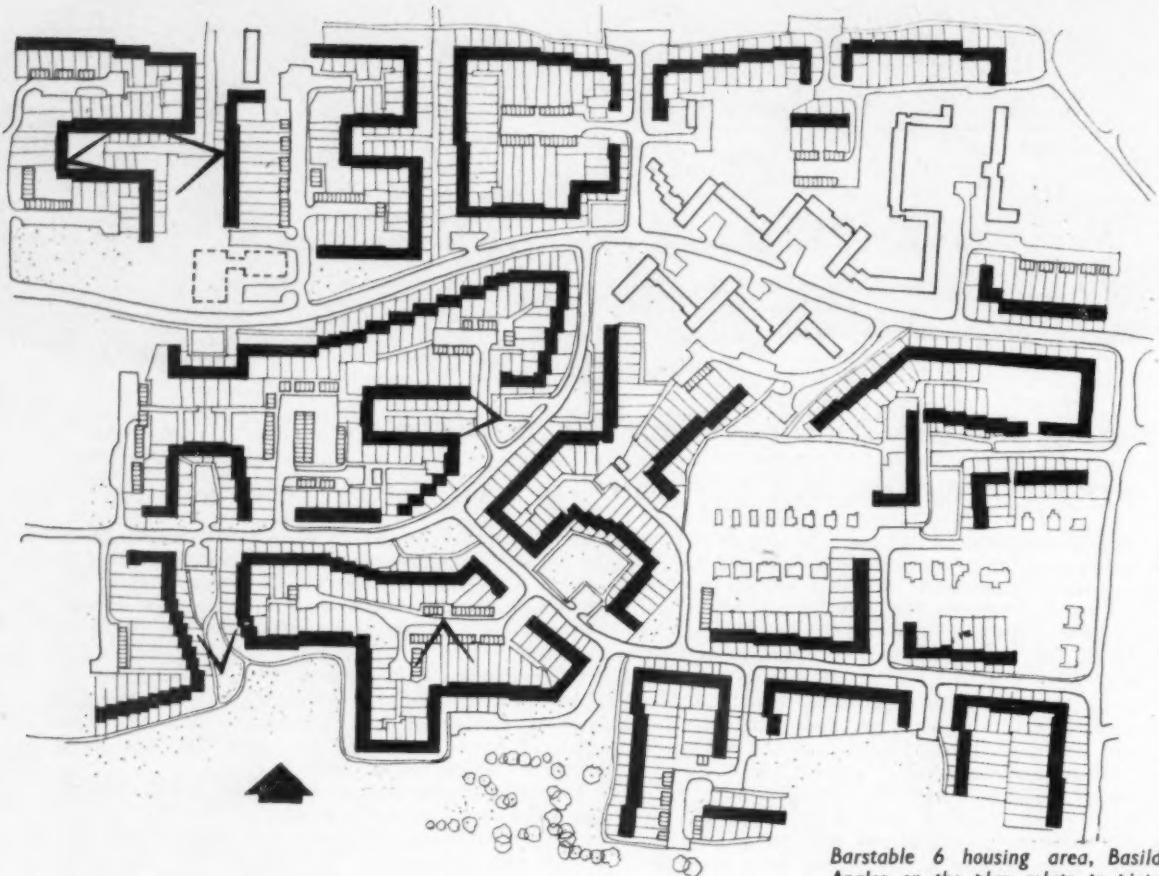
scape dominated the buildings, to a town street where the buildings dominated the landscape, and was in conflict with the problem of the motor vehicle for whose adequate provision in the conventional layout, greater widths of roads and parking areas would be required, thereby increasing the 80ft to 100ft width between fronts of houses which already gave an unsatisfactory scale with two-storey terraces. Segregation of pedestrian and wheeled traffic, therefore, appeared to be the basis on which the new living conditions should be planned.

Examples of this segregation existed in this country and the U.S.A. from the middle of the last century, but its first modern application to a high density residential area occurred at Radburn, in New Jersey, in 1928, where the growing danger of the motor vehicle to pedestrians had given it justification. It was later introduced to Britain for low cost housing in experimental schemes at Wrexham and Northampton. In 1954-55, therefore, Basildon produced the layout for the Barstable 6 housing area illustrated on a modified Radburn principle to a density of approximately 14 dwellings per acre; a ratio of one garage to every two houses, grouped in yards at the rears which combine with service access and car parking for the houses and with pedestrian front streets. This layout, in which the length of service "carry" to the rear of each house did not exceed 150ft and the front of any house was not more than 300ft from a road, caused the widths between rears of houses to be increased from 100ft to 180ft and allowed a reduction in the widths between fronts of houses from 80/100ft to 50/60ft, thereby assisting the creation of urbanity and better scale in the front pedestrian streets. This also opened up quite new and remarkable opportunities for the grouping of houses and creation of street vistas.

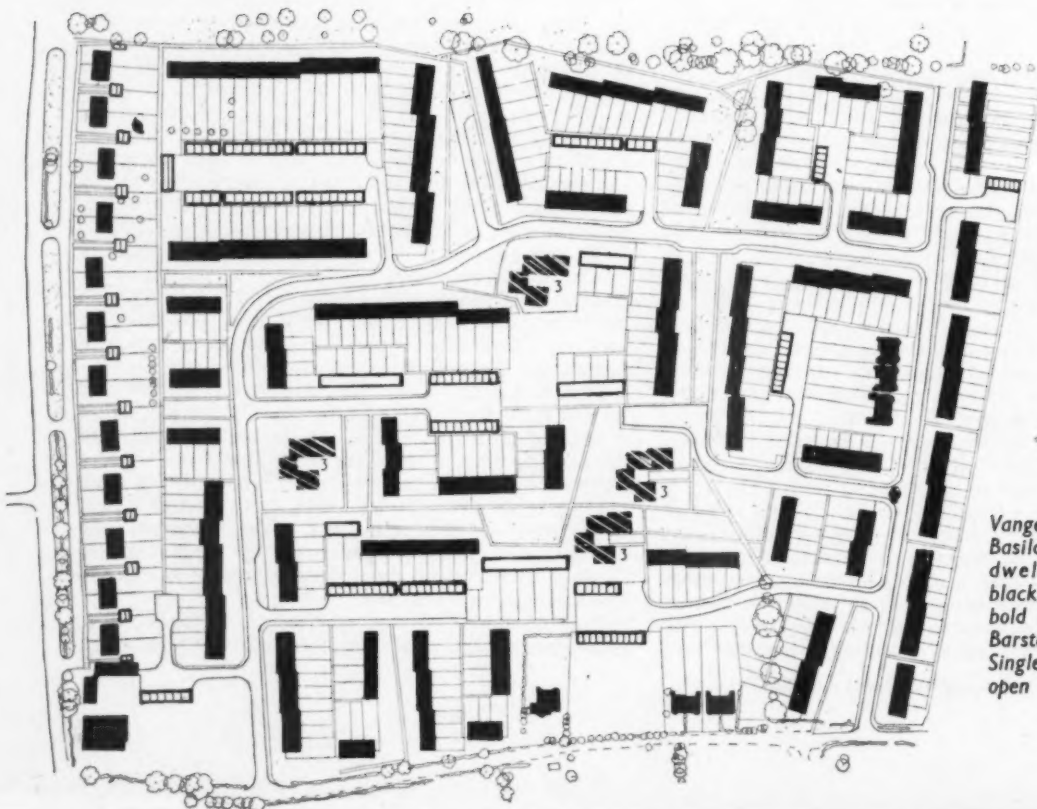
Simultaneously with this layout the corporation invited Basil Spence to prepare a layout for the Vange 7 housing area and William Crabtree the Kingswood 4B housing area to meet the same conditions. Spence followed the rear access principle based on a ring road, but Crabtree preferred to design to front access, and these three schemes, illustrated below and now built and tenanted, enable comparisons to be made and conclusions to be drawn from their character and provision for the motor vehicle.

The adoption of the rear access principle also revolutionized the two-storey terrace house plan where

Top of page: aerial view of Barstable 6 housing area, Basildon



Barstable 6 housing area, Basildon. Angles on the plan relate to pictures on pages 428 and 429. Two-storey dwellings are solid black; garages are shown hatched



Vange 7 housing area, Basildon. Two-storey dwellings are shown black, three-storey with bold hatch; garages as Barstable 6 plan above. Single person dwellings open

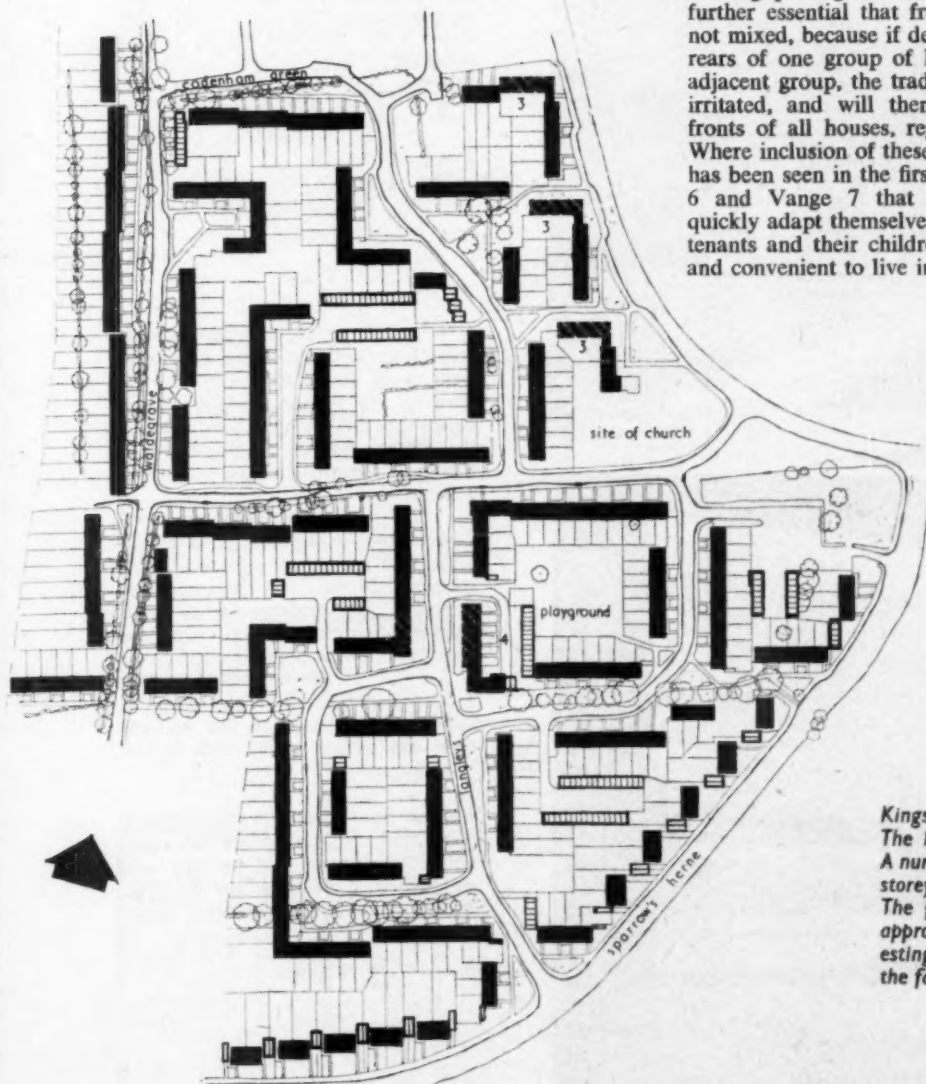
Planning for the Motor Vehicle at Basildon

normally, irrespective of aspect, storage space for fuel and refuse had to be provided at the front, often resulting in wasteful planning and unsightly solutions. With the service access at the rear these functions could be accommodated in a store at the bottom of the garden, having a party wall with the garages, thus giving screening at the backs of gardens and economy when related to the house on a frontage reduced to 17/18ft.

From these early rear access layouts much experience has been gained and applied to the succeeding areas of Ghyllgrove and Lee Chapel, parts of which are now under construction. For the living conditions created to resolve satisfactorily it is essential, for instance, that the approach to the rear access garage and service yards be clear and direct from the residential road, and for the backs of the houses, which are being served, to be clearly seen from the yards. The British housewife also does not welcome visitors approaching from the garden to the back of the house and, therefore, convenient

visitors' car parks must be provided at the entries to the pedestrian ways. On the present schemes this visitors' car parking is being provided in the ratio of one car space to every four houses, and the garage provision has been increased to three garages for every four houses. The clear self-expression of the area planned also becomes an absolute necessity when fire access is being considered. The integration of all these factors increasingly requires an area as near rectangular in its boundaries as possible, within which the rectangular rear access super blocks can be planned with a minimum of dual access. It is the spaces between the fronts of these super blocks which form the pedestrian streets with squares at their intersections, and which, with their narrowed widths, increased opportunities for hard landscaping, bridging over with flats at the entry points and the closing of internal and external corners, give the opportunity previously referred to for an urban character.

With careful selection and relation of street names with clear signposting at the entries to the service roads and with the house numbers on the rear doors entering off the garage yards, it has been found that tradesmen make their deliveries conveniently from the service roads and the only service continuing to use the front doors is the postman. The necessity for absolute clarity in the circulation of the rear access area, and its naming and signposting has been emphasized above and it is further essential that front access and rear access are not mixed, because if deliveries have to be made to the rears of one group of houses but to the fronts of an adjacent group, the tradespeople become confused and irritated, and will then automatically deliver to the fronts of all houses, regardless of the type of layout. Where inclusion of these essentials has been achieved it has been seen in the first rear access areas of Barstable 6 and Vange 7 that the tenants and tradespeople quickly adapt themselves to the new conditions and the tenants and their children find the areas very pleasant and convenient to live in.



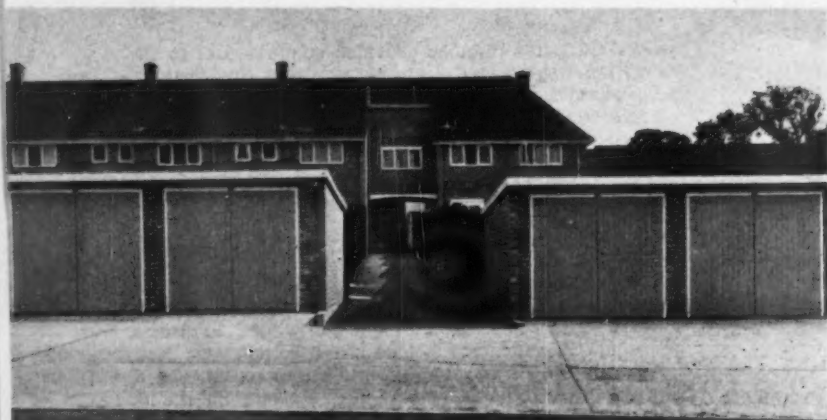
Kingswood 4B housing area, Basildon. The key is the same as for Vange 7. A number 4 is shown against the four-storey flats (illustrated, page 436). The positions of the garages and the approach to front doors are the interesting features of this plan and those on the facing page

BARSTABLE 6 HOUSING AREA BASILDON

THIS area comprises 628 dwellings in two-storey development to a density of approximately 14 dwellings per acre and has provision for 364 garages, mainly in large groups. 213 of these garages were constructed in the building contract and the remaining 151 sites will be developed in groups on demand. The contract commenced in April, 1957, and was completed in May, 1959. A further part of the area was covered by existing properties scheduled for later acquisition and demolition so that a second contract is now starting to complete the area with another 250 dwellings.

The site is bounded by the town centre on the west, by the existing residential Church Road on the east, by the main east-west feeder road, Broadmayne on the north and by the main Fenchurch St.-Southend railway on the south. There is a fairly steep slope from the south-east to the north-west. Long Riding, a principal east-west residential spine road running from the Barstable neighbourhood centre to the town centre, crosses approximately through the middle of this area.

The layout is on the rear access principle, with large housing blocks



1. View from garage and service yard through passageway to the pedestrian front street giving rear access at the rear of the garages to the houses adjacent to the archway. The plan on the bottom left of the facing page relates to the house at the end of the passage

2. Pedestrian close with an archway through to the garage service area at the rear. Enclosed corners, continuous ridge line, hard landscaping, converted bracket lamp combined to show the evolution of a new pedestrian street

3. View from archway in photograph 1, showing scale created by this development and closure of the vista by the cross terrace

4. View from pedestrian close across a spine road to further pedestrian close. Visitors' car parks will be seen, and also feeling of enclosure, and the introduction of converted traditional lamp-posts

3 Photos: COLIN WESTWOOD

Architects:
BASILDON DEVELOPMENT
CORPORATION

Chief Architect/Planner:
A. B. DAVIES in succession to
NOEL TWEDDELL

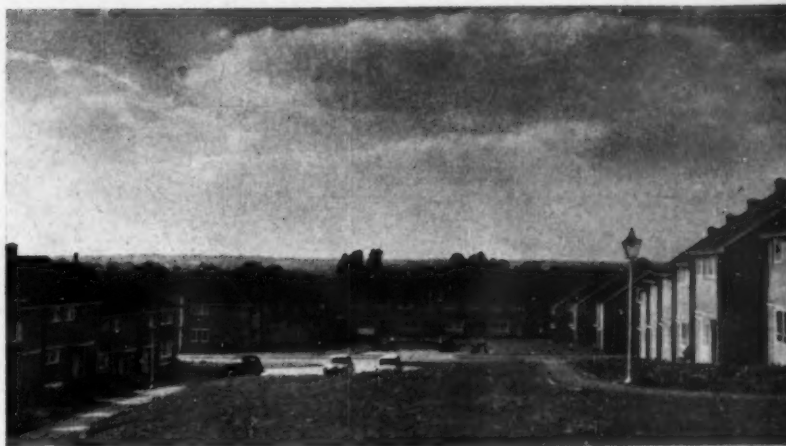
giving almost total enclosure to the garages and service yards which have only one entry point each from the service roads.

The gardens average 50ft in depth with the garage yards, 30ft width for single-sided development and 40ft width for double-sided development. The average width between the rears of houses is therefore 180ft and the width between fronts in the pedestrian ways has been made 55ft to 60ft. Visitors' car parking will be seen off the residential roads at the entrance to the pedestrian ways.

Complete enclosure is created in the pedestrian streets and courts by flatted external corner units and four-bedroom house internal corner units. This effect also reflected in the residential roads is required in this and other areas adjacent to the town centre so that both for passing through it and living in it one would feel this proximity to the centre of a large town of 100,000 population.

The arrangement of the blocks has also been influenced on this site by the fact that it can be viewed westwards from the ridge at Church Road, towards the town centre and is therefore read more than usually as a layout before the close-up views are obtained.

4



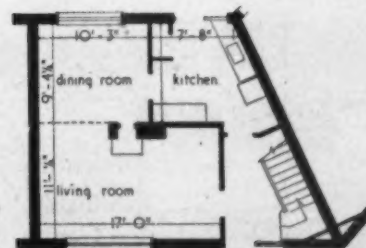
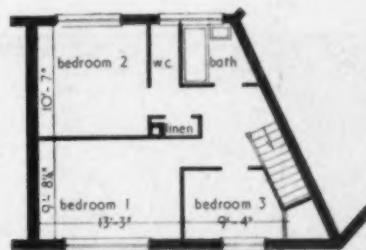
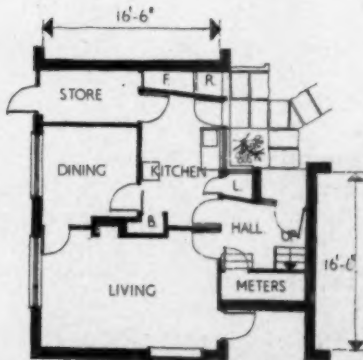
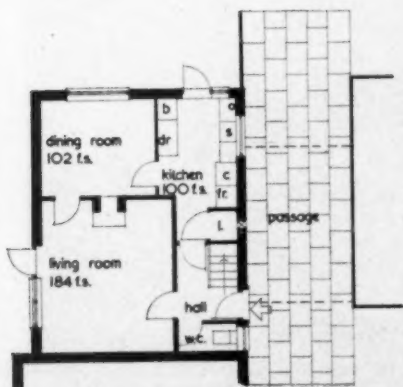
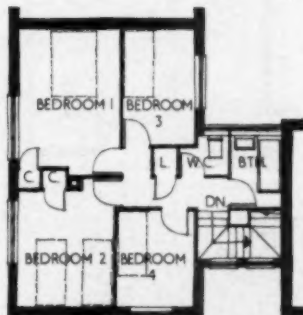
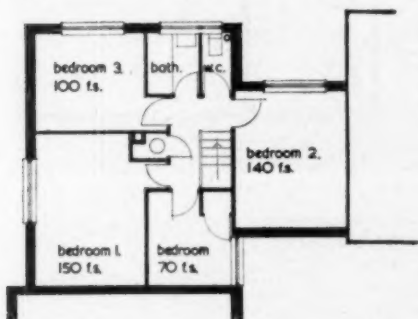
5



5. Close off residential road with archway through to the garage service area. Again the reduced scale, enclosed corners, continuous ridge line and traditional lamp-post will be seen. In future layouts, car parking will be provided off the road. The senior architect for the Barstable 6 housing area was J. Farber. Other architects concerned with the scheme were M. R. Bool, R. A. Shaw, N. Roberts and E. Greenwood

HOUSE TYPES

SCALE: 1 IN=16 FT ▼



BACK ACCESS
STORE
FUEL
REFUSE

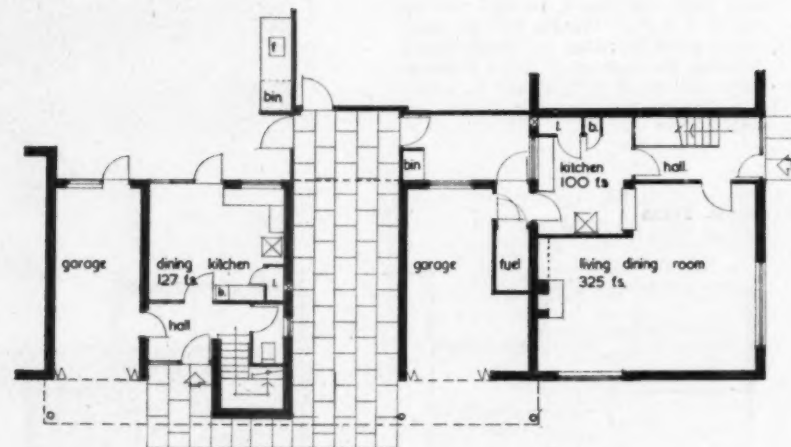
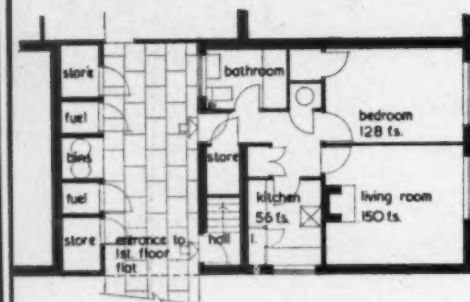
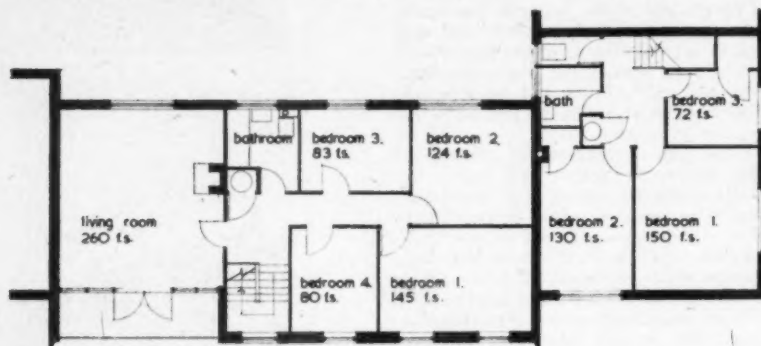
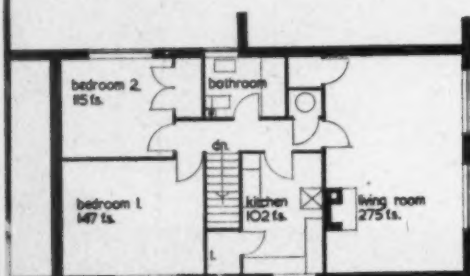
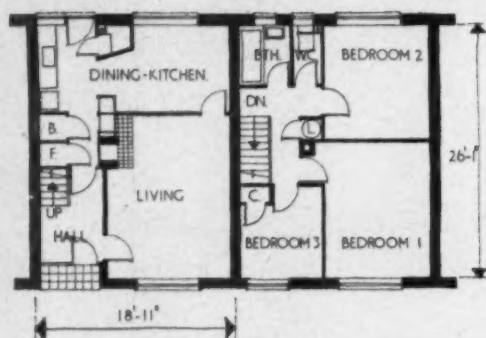
THE ARCHITECT and Building News, 11 November 1959

BARSTABLE 6 HOUSING AREA

General Contractors: LESLIE & CO. LTD.

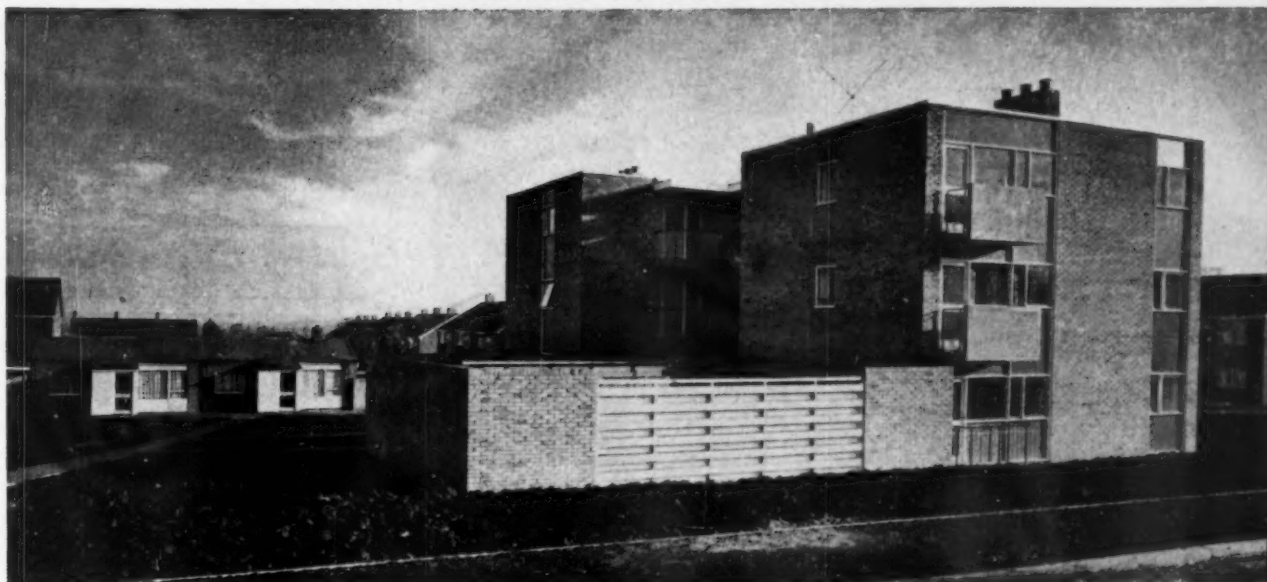
Sub-contractors and suppliers:

Breeze Blocks: Beechcroft Concrete Partitions Ltd. Carcasing Timber: Phoenix Timber Co. Ltd. Convector Fires: "Mesfire"—Ideal Boilers Ltd.; "Brookfire"—Allied Ironfounders Ltd.; "Chein"—Radiation Group Sales Ltd. Doors (internal): Magnet Timber Ltd. Doors (external): F. Hill & Sons Ltd. Electrical Installation: Holliday, Hall & Scinson Ltd. Facing Bricks: Rustic and Tuscan—London Brick Co. Ltd.; Stocks and Pluckley—Block: R. G. Ward & Co. Ltd.; Sand Lime: Ryarsh Brick & Sand Co. Ltd. Fencing: Penfold Fencing & Engineering Ltd. Flint Cobble Stones: A. L. Walley. Glazed Asbestos Panels ("Pailite"): Turners Asbestos Cement Co. Ltd. Glazing: Aygee Ltd. Ironmongery: Walker & Wood Ltd.; Rodgers & Jackson; Standard Range & Foundry Co. Ltd. Joinery: Rippers Ltd. Metal Windows: Crittall Manufacturing Co. Ltd. Painting: C. & T. Painters Ltd. Plastering: Alfred Charlwood & Sons Ltd. Plumbing: Matthew Hall & Co. Ltd. Pre-cast Concrete: Concrete Constructors Co. (Essex) Ltd. Pre-cast Concrete Hollow Beam Floors: Concrete Ltd. "Reformite" Facing Blocks: Sellock, Nichols & Co. Ltd. Roof Tiling (and Vertical Tile Hanging): Wood Matshams Ltd. Roof and External Wall Tiles: Redland Tiles Ltd. Sanitary Fittings: Scitsons Sanitary Fittings Ltd. Thermoplastic Floor Tiling: Marley Tile Co. Ltd. Tile Fireplace Slabs: O'Brian Thomas (London) Ltd. "Ultra" Garage Door Gear: P. C. Henderson Ltd. W.I. Balustrades: H. & C. Davies & Co. Ltd.; G. A. Baker. Lica, Aggregate, Flint and Patterned Concrete, Facing Blocks: Flynn Bros.



View showing rear access garages.
Plans of the maisonnettes at the rear
end of the block are shown on the right





Above, three-storey flats containing nine two-bedroom flats. Outdoor drying area in foreground; view from west. Below: Flats and single-person dwellings. The bottom picture shows south aspect

Photos: HENK SNOEK

VANGE 7 HOUSING AREA BASILDON

Architects: BASIL SPENCE & PARTNERS
in collaboration with Chief Architect/Planner, Basildon New Town



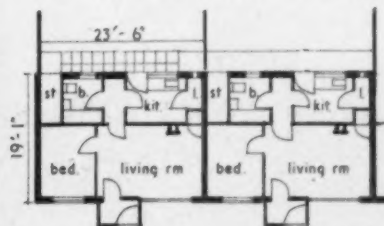
THE first stage of this scheme was for 373 dwellings, in pairs, and terraces of three to sixteen houses, with four three-storey blocks, each of nine flats; 95 garages will also be provided. 104 houses are two-bedroom of one-type plan, 26 are single-storey with one bedroom of two-type plans, 207 houses are three-bedroom of four-type plans, 36 flats are two-bedroomed.

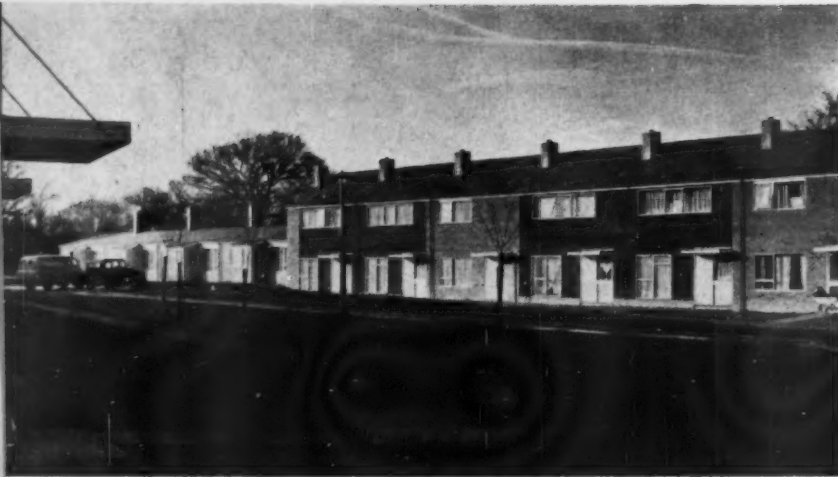
The contract commenced in September, 1956, and was completed in January, 1959. Further houses are being built as land becomes available, and the final scheme will have 395 dwellings.

Houses are of traditional construction with loadbearing brickwork. Alternate pairs of terrace houses have shiplap boarding infill with a black finish in the Essex tradition. Three colours of facing bricks have been used to give variety. The roofs are covered in blue-black asbestos-cement slates and have a low pitch.

The flats are also constructed in loadbearing brickwork with pre-cast concrete floors and reinforced concrete external stairs and access balconies. A flat timber roof is

PLAN OF SINGLE-PERSON DWELLINGS



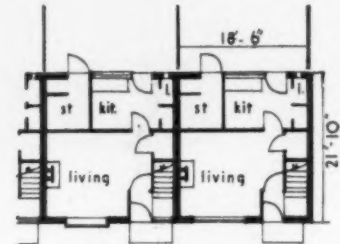
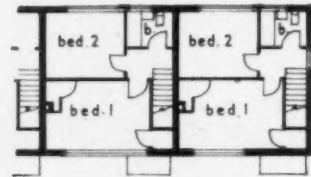


Above, general view of Mistley End, showing single dwellings and two-bedroom south aspect houses. Left, general view of Mistley showing two-storey bedroom houses, south aspect

Below, houses in Great Mistley. These have three bedrooms and face south



**TYPICAL HOUSE PLANS
SOUTH FACING
SCALE: 1 IN=16 FT**

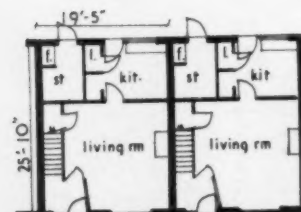
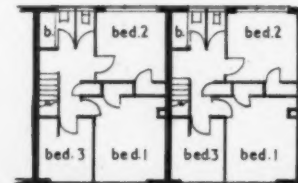


covered in three layers of mineral-surfaced bituminous felt.

The garages are of pre-cast dark-toned concrete units with a ribbed texture surface and their roofs are virtually flat with corrugated asbestos-cement panels.

The main feature of the layout is a ring road system, the houses being grouped around pedestrian precincts served by public paths at the front and by garage courts at the rear.

The more expensive houses, which have garages and are the only semi-detached ones, line Clay Hill Road, which forms the southern boundary of the site. All the remaining dwellings are terraced, including the single-storey houses. The blocks of flats are in a central position, each surrounded by open spaces. Also in this area is the children's play space connected directly by footpaths to all parts of the site.



THE ARCHITECT and Building News,
11 November 1959

VANGE 7
HOUSING AREA
BASILDON

Right, interior and exterior views of three-bedroom house, south aspect. The former shows the living area with free standing fireplace, looking towards the dining area

Below, three-bedroom houses in Clay Hill Road, south aspect. Photograph at the bottom of the page gives view of the houses from the west



Architects:
BASIL SPENCE & PARTNERS

Partner in charge:
ANDREW RENTON

Consultants:
Landscaping: SYLVIA CROWE

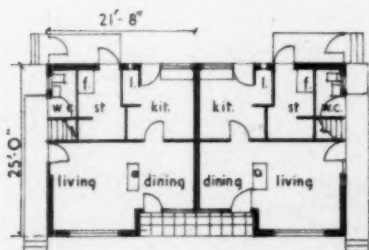
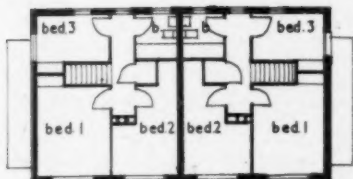
Engineering: S. M. CLEATOR

Quantity Surveyor:
E. C. HARRIS & PARTNERS

General Contractors:
LESLIE & CO., LTD.

Sub-contractors and suppliers:

Concrete Garages: Woolaway Construction Ltd.
Communal T.V. Installation (Flats): Antiference Ltd.
Electrical Installation: Holliday, Hall & Stinson Ltd.
Facing Bricks (Two-storey Houses): Broad & Co. Ltd.
Facing Bricks (Single-storey Houses): R. Passmore.
Flooring Contractors: Rowan & Boden Ltd.
Gas Installation: North Thames Gas Board.
Gas Drying Cabinets: Clifford Products Ltd.
Ironmongery (Houses): A. G. Roberts Ltd.
Ironmongery (Flats): G. & S. Allwood.
Joinery (Houses): Rippers Ltd.
Metal Hand-railing: G. A. Baker Ltd.
Metal Windows: Cristall Manufacturing Co. Ltd.
Pre-cast Concrete Flue Liners and Mantelshelves: True Flue Ltd.
Pre-cast Floors, in situ Stairs and Balconies (Flats): Concrete Ltd.
Plumbing: J. C. Toogood Ltd.
Paints: Joseph Freeman, Sons & Co. Ltd.
Roofing: William Sandfield Ltd.
Sanitary Ware: Ashley Brandon Ltd.
Stoves: Radiation Group Sales Ltd.
Traps and Wastes: Econa Modern Products Ltd.



KINGSWOOD 4B HOUSING AREA, BASILDON

Architect: WILLIAM CRABTREE

in collaboration with Chief Architect/Planner, Basildon New Town

THIS scheme comprises 410 dwellings, 58 being flats or maisonnettes in two- three- and four-storey blocks and 325 two-storey houses. There are 165 garages planned, of which 21 are attached to the larger houses and 144 are in 11 blocks of varying sizes distributed to serve the area as a whole. The density is 14 houses/acre. There are two children's playgrounds.

When discussing this scheme at an early stage the new town chief architect, Noel Tweddell, explained that the "vehicular access at the rear" principle was generally favoured by himself and his corporation. The pros and cons were discussed at length, but eventually the conclusion was reached that on this particular site, at least, where the existing country roads and hedge lines precluded to some extent real freedom of planning, the "front access for all purposes" mode of planning should be adopted. Insistence was made that the service door should obviously be of secondary importance and dustbin and fuel arrangements adequately screened.

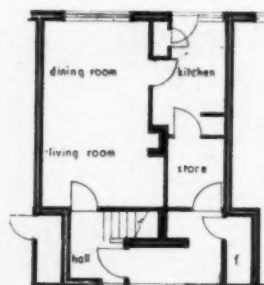
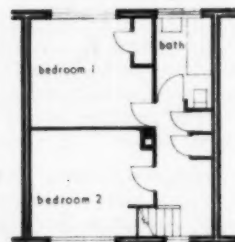
The adoption of "front access" planning involves planning the "store" as an integral part of the house. These "stores" at Kingswood

4B have been left unplastered but have electric light and are dry and warm, and have proved to be of varied use. Some families use them as a children's playroom, some as a hobby room or workshop, and at Basildon, where the pram is rather more ubiquitous than the motor-car, a warm, dry store adjoining the kitchen is particularly essential.

In most of the Basildon housing areas the front gardens are of the open type. The only real privacy is in the rear gardens and those at Kingswood 4B are completely private in so far as all supplies, visitors, tradesmen, dustmen, etc., come to the front.

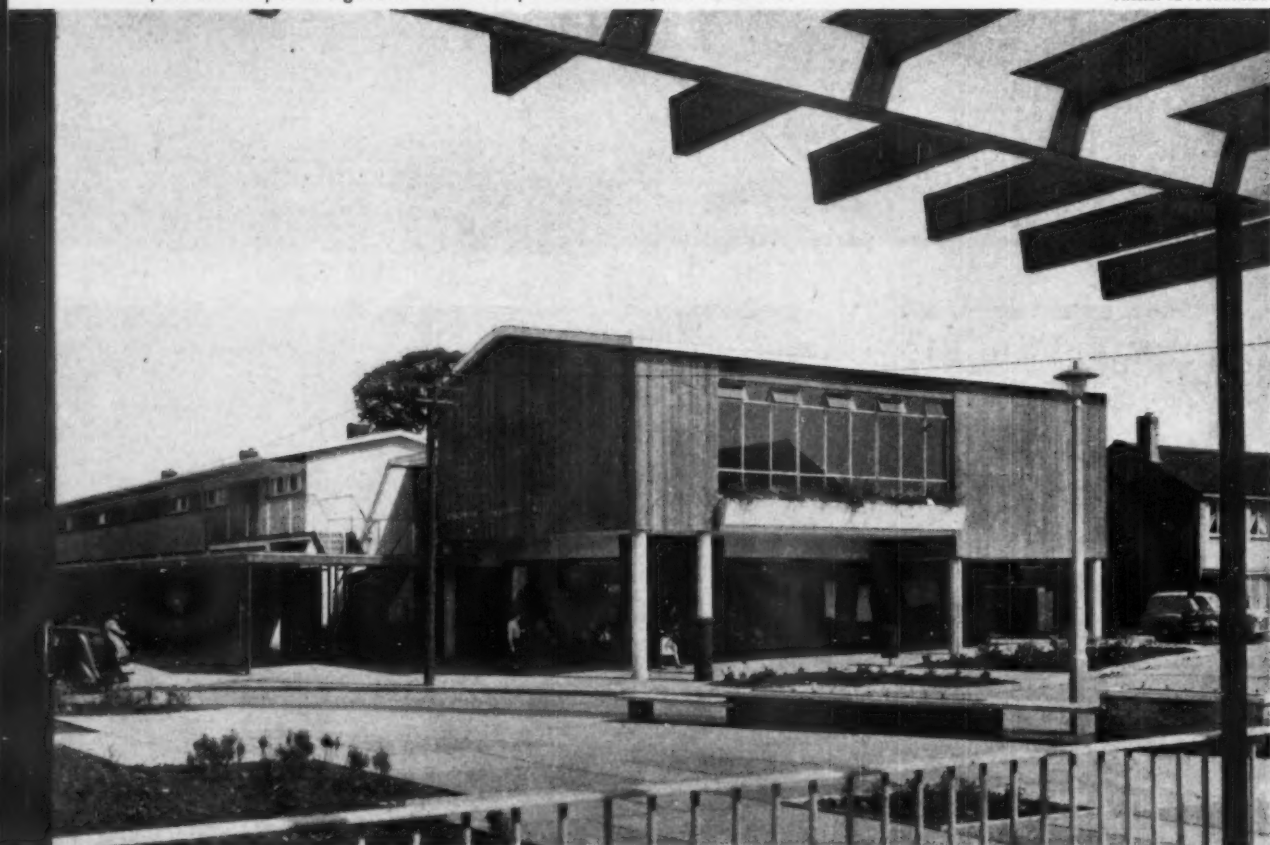
The garages at Kingswood 4B are disposed, for the most part, in groups and easily accessible. The requirement was originally for a proportion of 20 per cent in relation to dwellings but this was subsequently amended and the figure is now 40 per cent. The road pattern was designed to be simple and direct and with a minimum use of the cul-de-sac. It is considered to be sufficiently indirect to deter through traffic taking short cuts but not so tortuous that the inhabitants cannot go in any desired direction without time wasting and danger-provoking detours.

TERRACE
HOUSE PLANS
SCALE: 1 IN=16 FT



Kingswood main centre with community hall in the foreground, also flats and shops. The general contractor for this centre, was K. B. Rose

Photos: R. F. HARTMAN





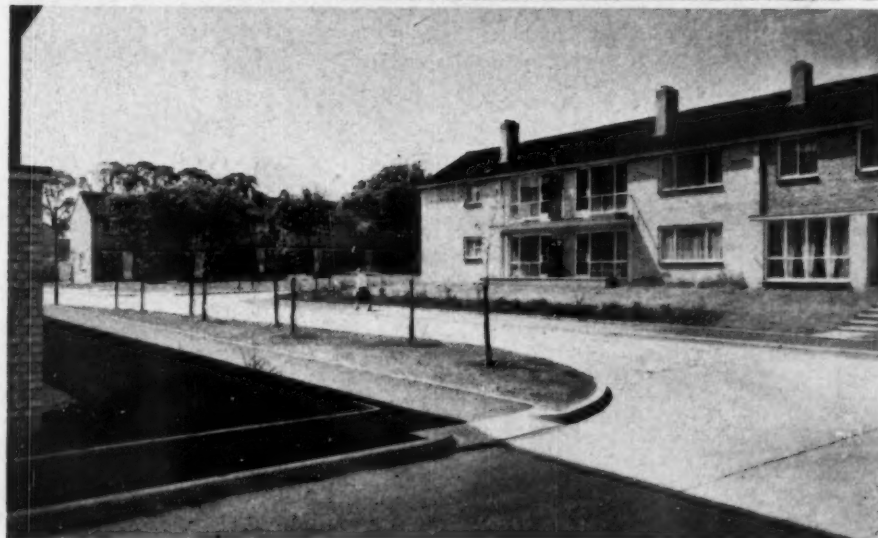
Two-bedroom terrace houses. These have narrow frontages and are faced with two types of brickwork—black and light yellow. Plans are shown on facing page



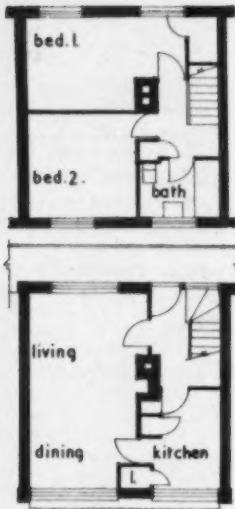
Small three-bedroom houses rendered in white Tyrolean with gables in contrasting black brickwork; perforated pre-cast concrete screens in the porches



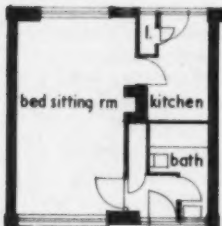
Small three-bedroom houses with Cotswold grey tiles to the first floor, golden buff brickwork to ground floors with pre-cast concrete screens to porches painted white. The two-bedroom terrace houses are faced in two types of contrasting brickwork



One elevation of two-storey flatted corner house (plan, page 438) in facing brickwork with rendered panels



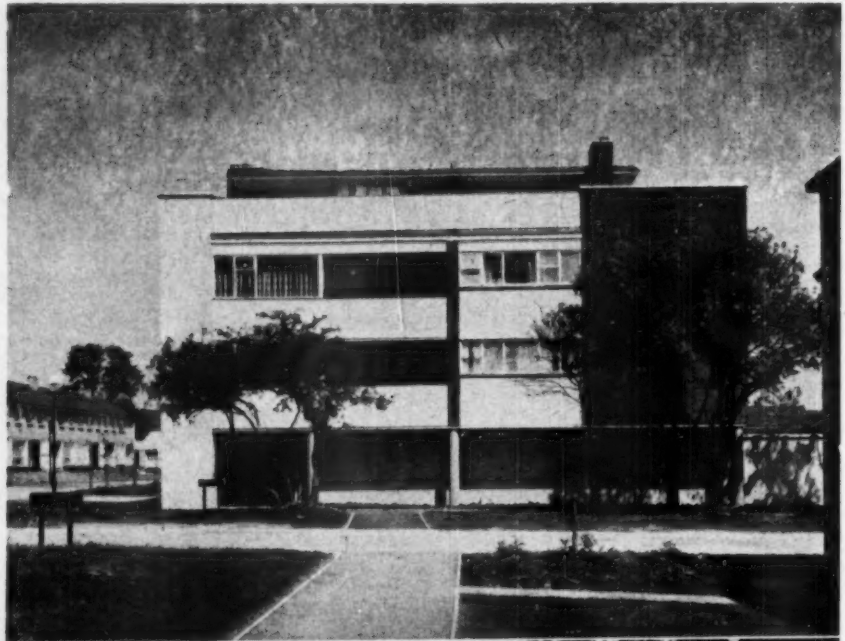
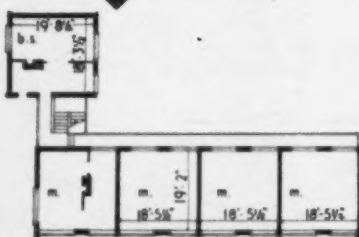
▲ MAISONNETTE
SCALE: 1 IN = 16 FT



▲ FLATS

**KINGSWOOD
4B HOUSING
AREA
BASILDON**

▼ FLATTED HOUSE PLAN



Photographs on facing page:
 1. South elevation of 4-storey one bedroom flat wing in black and light yellow facing bricks. Balcony panels in lime green T & G vertical boarding. Drying area on flat roof partly covered. Columns are in exposed aggregate. 2. General view of flats and maisonnettes showing maisonnette wing in black facing bricks with projecting balconies and living room windows in white T & G boarding. 3. Block from the rear showing access road

Architect:

WILLIAM CRABTREE
 in collaboration with
 Architect/Planner,
 Basildon

Associate in charge:

W. T. JAROSZ

Consultants:

Landscaping:

SYLVIA CROWE

Engineering:

S. M. CLEATOR

C. F. BATH

Quantity Surveyor:

E. C. HARRIS & PARTNERS

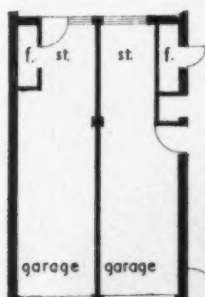
General Contractors:

W. C. FRENCH LTD.

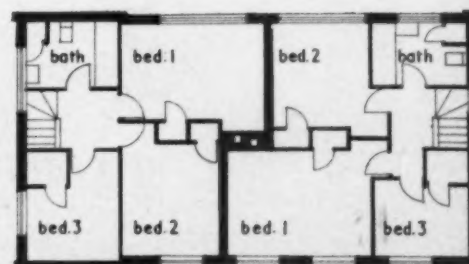
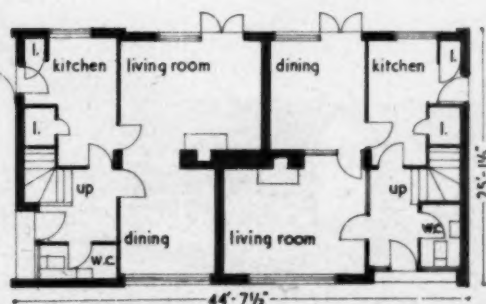
Sub-contractors and

suppliers:

Asphalting: Durable Asphalte Co. Ltd.
 Balustrading: S. E. Robbins & Sons.
 Bricks: London Brick Co. Ltd. Communal
 T.V. Installation: Hickley & Sons Ltd.
 Electric Installation: Electric Contracts
 (London) Ltd. External Plumbing: Ferry
 Development Co. Ltd. Fencing: Panfold
 Fencing Ltd. Floor Tiles and Handrail:
 The Marley Tile Co. Ltd. Fireplaces,
 Fireplace Surrounds and Ironmongery:
 W. N. Froy & Sons Ltd. Glazing:
 Faulkner Green & Co. Ltd. Internal
 Plumbing, Heating and Sanitary Fittings:
 Structural Services Ltd. Joinery: Jayabee
 Joinery Ltd. Metal Windows and Doors:
 The Cristall Manufacturing Co. Ltd.
 Painting: Jenner Bros. (Ilford) Ltd.
 Plastering: A. Chardwood & Sons Ltd.
 Reinforced Concrete: Brick Flooring
 Construction. Roofing Tiles: A. H.
 Herbert & Co. Ltd. Steel Reinforcement:
 Robert Hill Ltd. Wall and Gilt Tiling:
 Parkingsons (Wall Tiling) Ltd.



Photographs above show larger semi-detached three-bedroom houses on the southern boundary of the site. Wood panelling is of natural coloured cedar and brickwork is of contrasting colours—black and light yellow. Garage doors have up-and-over construction and are lime green. Plans to these houses are shown below

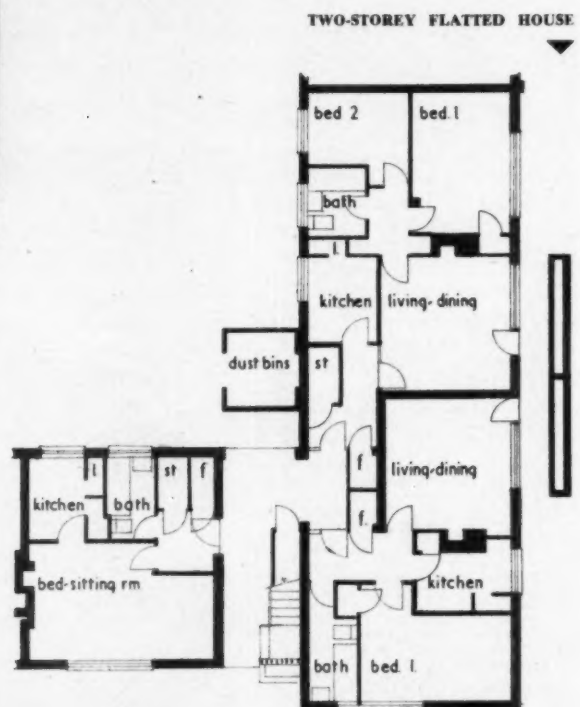
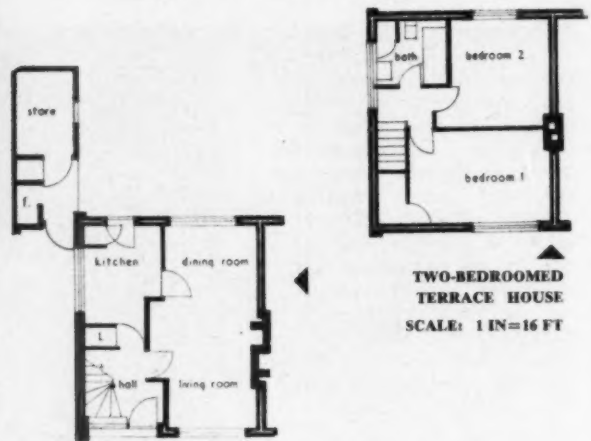




Garages in the Kingswood 4B housing area have been designed for a proportion of 40 per cent in relation to the dwelling. Above, two photos show—garages to the four-storey block of maisonnettes and flats, and lock-up garages to houses

KINGSWOOD 4B HOUSING AREA BASILDON

Careful landscaping has provided Basildon with plenty of open spaces and has ensured that many of the trees have been retained thus providing attractive surroundings. In the view below, the white gable in the centre, is the end of a two-storey flatted house



Photos: COLIN WESTWOOD





Grand Hall, Building Exhibition, 1957

GUIDE TO OLYMPIA

The Building Exhibition will be officially opened at 12 noon on Wednesday, November 18, at Olympia, London, by Lord John Hope, the Minister of Works. The President of the R.I.B.A., Basil Spence, O.B.E., will be in the chair. A vote of thanks is to be proposed by T. V. Prosser, President of the N.F.B.T.E., and J. H. Mills, President of the N.F.B.T.O., will second the motion. The Exhibition will be open to the public from 10 o'clock in the morning of the same day and will remain open every weekday until December 2. The Exhibition will close on Monday, Wednesday and Saturday evenings at 6 p.m. and on Tuesday, Thursday and Friday evenings at 8 p.m.

The President of the N.F.B.T.E. and Mrs. Prosser will be "at home" to members and their friends on the Federation's stand, Nos. 584 and 586, Grand Hall Gallery from 2.30 p.m. on Tuesday, November 24. Tea will be served in the Addison Restaurant (National Hall) between 3 p.m. and 5 p.m. The President of the L.M.B.A., K. J. Pearce, T.D., with Mrs. Pearce, will be "at home" to members of the L.M.B.A. and the National Federation, in the clubroom situated in the Conference Hall, between 3.30 p.m. and 5.30 p.m. on Friday, November 20.

Outline plans of the Exhibition are shown on p. 445 and these should enable readers to plan their route round the Exhibition in advance. Pages 440 to 444 are devoted to the alphabetical list of exhibitors and a further list of exhibitors, classified under the headings of their various products, appears on pages 446 to 452. A tear-out plan, giving names and numbers of stands and showing aisles, together with a stand-by-stand report of the Exhibition, will be published in our next issue, on Wednesday, November 18, the Exhibition opening day.

DIARY

Nov. 18	2.00	Joinery Managers' Association Meeting	Large Conference Room
	2.30	Finnish Foreign Trade Association Reception	Small Conference Room
Nov. 19	11.30	Institute of Builders Reception	Small Conference Room
Nov. 20	10.45	Southern Counties Federation of Building Trades' Employers Meeting	Large Conference Room
	5.00	Ministry of Works Conference	Large Conference Room
Nov. 21	11.30	National Association of Plumbing Teachers' Meeting	Small Conference Room
	2.00	Guild of Bricklayers Meeting	Large Conference Room
Nov. 23	12.00	The Worshipful Company of Tylers and Bricklayers Official visit	
Nov. 24	10.00	National Association of Putty Manufacturers Meeting	Small Conference Room
	10.00	Architects' Benevolent Society Meeting	Large Conference Room
	2.30	N.F.B.T.E. Meeting and visit	Addison Restaurant
	5.00	Vitreous Enamel Development Council Reception	Small Conference Room
Nov. 25	2.30	Faculty of architects and surveyors visit	Addison Restaurant
Nov. 27	1.30	N.F.B.T.E. Foremen's National Joint Advisory Committee Meeting	Small Conference Room

ALPHABETICAL LIST OF EXHIBITORS

Below is an alphabetical list of exhibitors with the stand numbers. Guides of stand numbers are shown on page 445 so that visitors to the Exhibition may roughly plan their movements. This year, for convenience, the various halls and stand numbers are printed at the top of each page of the guide. The position of each firm can therefore be ascertained at a glance. In the next issue of the A. & B.N., another special on the Exhibition, more detailed plans showing stands with names, will be included as a fold-out sheet, detachable from the issue. Stand positions:

Grand Hall (A1-L199); National Hall (M200-T279) and (T300-M333); Portcullis Avenue (T337-342); Empire Hall (Y344-Z358) and (Y360-U399); Grand Hall Annexe (L400-B492); Grand Hall Gallery (500-599); National Hall Gallery (600-683); Empire Hall Gallery (1st floor) (700-783); (2nd floor) (800-874)

A

A.B. Mould & Construction Co. Ltd.—**D 466, A 492**
 Abraham, Robert, Ltd.—**T 275**
 A.B. Sales Ltd.—**O 226**
 Accrington Brick & Tile Co. Ltd.—**H 152**
 A.C.E. Machinery Ltd.—**P 319/20**
 Acme Flooring & Paving Co. (1904) Ltd.—**520**
 Acrow (Engineers) Ltd.—**E 457, E 460, 526, 672**
 Adamite Co. Ltd.—**677**
 Adamsez Ltd.—**F 110**
 Adapta Charts Ltd.—**781**
 Adshead Ratcliffe & Co. Ltd.—**602, 604**
 African Building Board Corporation.—**645**
 Ahlstrom, A. Osakeyhtio.—**846/7**
 Aircrew Company and Jicwood Ltd.—**572, 574**
 Ajax Architectural Products Ltd.—**G 131**
 Allam, E. P., & Co.—**R 307**
 Allan, Thomas, & Sons Ltd.—**O 226**
 Allied Brick & Tile Works Ltd.—**B 29**
 Allied Group.—**856**
 Allied Guilds.—**546/548**
 Allied Ironfounders Ltd.—**N 211/2**
 Allied Manufacturing Co. Ltd.—**856**
 Anderson, D., & Son Ltd.—**E 94/5**
 Andrews Bros. Ltd.—**533**
 Anasala Oy.—**846/7**
 Aqualux Ltd.—**770**
 ARCHITECT & BUILDING NEWS, THE—**G 141**
 Architects' Benevolent Society.—**505**
 Architectural Press Ltd.—**S 267**
 Arden Plant Ltd.—**C 475**
 Arkinstall Bros. (Bromsgrove) Ltd.—**838**
 Armstrong Cork Co. Ltd.—**E 92/3**
 Art Pavements & Decorations Ltd.—**D 73**
 Arthur Productions (Clydebank) Ltd.—**671**
 Asbestospray S.A. (International).—**B 22**
 Ascot Gas Water Heaters Ltd.—**P 235**
 Ashworth Kirk & Co. Ltd.—**638, 640**
 Atlas Lighting Ltd.—**708**
 Atlas Stone Co. Ltd.—**B 24**
 Audens Ltd.—**X 351**
 Auland (Export) Ltd.—**620**
 Auland Ltd.—**620**
 Austins of East Ham Ltd.—**588**
 Aveling-Barford Ltd.—**O 329**
 Avery, J., & Co. (Est. 1834) Ltd.—**539**

B

Bakelite Ltd.—**D 69**
 Bamford, J. C. (Excavators) Ltd.—**C 476/8**
 Barber Flooring Co. Ltd.—**752**

Barking Brassware Co. Ltd.—**576**
 Barnes & Fletcher Ltd.—**845**
 Barry, Ostlere & Shepherd Ltd.—**749/50**
 Bartrev Board Co. Ltd.—**B 31**
 Barwell, James, Ltd.—**A 16**
 Barwin, P., Ltd.—**521**
 Bath & Portland Stone Firms Ltd.—**E 82**
 Baxendale, Richard, & Sons Ltd.—**605**
 B.B. Chemical Co. Ltd.—**755**
 Beanes, A., & Co. Ltd.—**516, 518**
 Belco Manufacturing Co. (1939) Ltd.—**A 2/3**
 Belco Manufacturing Co. (Thermostats) Ltd.—**A 2/3**
 Bell, A., & Co. Ltd.—**B 26**
 Bellrock Gypsum Industries Ltd.—**K 165/6**
 Bendz Ltd.—**780**
 Benfix Steel Co. Ltd.—**C 44**
 Benn Brothers Ltd.—**A 17**
 Benton, Edward, & Co. Ltd.—**M 332/3**
 Berry Wiggins & Co. Ltd.—**B 34**
 Berry's Engineering Co.—**Y 352**
 Beves & Co. Ltd.—**650**
 Bilston Foundries Ltd.—**R 251**
 Binns, A. J., Ltd.—**B 40**
 B.I.P. Reinforced Products Ltd.—**657**
 Black & White (Accrington) Ltd.—**516, 518**
 Blue Circle Group of Companies.—**F 108/9**
 Blunn, Allan, Ltd.—**S 269**
 Bolton Gate Co. Ltd.—**D 66**
 Borchardt, F. A., Ltd.—**T 273**
 Borneo Co. Ltd.—**625**
 Boulton & Paul Ltd.—**Q 246/7**
 Boulton Scaffolding Ltd.—**L 417**
 Bourner, F. H., & Co. (Engineers) Ltd.—**S 260**
 Bowen, James, & Sons Ltd.—**H 424/6**
 Braby, Fredk., & Co. Ltd.—**H 155**
 Bradley, Edwin H., & Sons Ltd.—**C 60**
 Bratt Colbran Ltd.—**M 203/4**
 Bray Construction Equipment Ltd.—**H 430/1**
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 Briggs, William, & Sons Ltd.—**C 45**
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 British Building & Engineering Appliances Ltd.—**G 444**
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 British Mouldex Ltd.—**603**
 British Paints Ltd.—**814**
 British Plaster Board (Manufacturing) Ltd.—**E 83/84**

British Plumber Ltd.—**H 147**
 British Railways—**641**
 British Sisalkraft Ltd.—**587**
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 Bull, F. W. (Constructions) Ltd.—**579**
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 Burbank Foundry Co. Ltd.—**O 226**
 Burgess Products Co. Ltd.—**617**
 Butterley Co. Ltd.—**B 36**
 BX Plastics Co. Ltd.—**D 53**

C

Cable Covers Ltd.—**618**
 Cafferata & Co. Ltd.—**H 159**
 Calor Gas (Distributing) Co. Ltd.—**673**
 Cameron & Robertson Ltd.—**O 226**
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 Carter Group of Companies.—**D 73**
 Carter Tiles Ltd.—**D 73**
 Carter Tiling (Edinburgh).—**D 73**
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 Cawood, Wharton & Co. Ltd.—**772**
 CCC Carriers Ltd.—**339/41**
 Cellactite Co. Ltd.—**753/4**
 Celotex Ltd.—**C 53/4**
 Cement Marketing Co. Ltd.—**F 108/9**
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 Ceradel Ltd.—**587**
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Housing Manager said: "When the 11-storey flats were designed, the architects thought it would be comparatively easy to clean the outside of the windows by leaning out with a mop or rag on a stick.

"However, in view of the protests, I am investigating whether any local window-cleaning firm would consider taking on the job.

"I have some sympathy with the housewives—I haven't much of a head for heights myself."

HOPE'S




● In Birmingham new multi-storey flats are being fitted with reversible window frames so that the glass can be cleaned from inside the rooms. With the older multi-storey flats in the city the cost of having the outside of the panes cleaned is borne by the Housing Revenue Account.

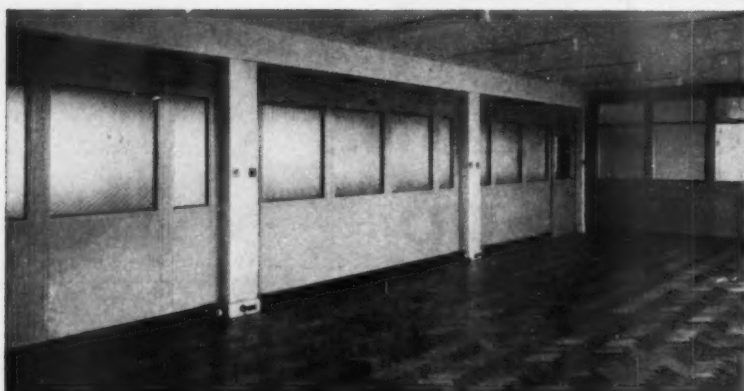
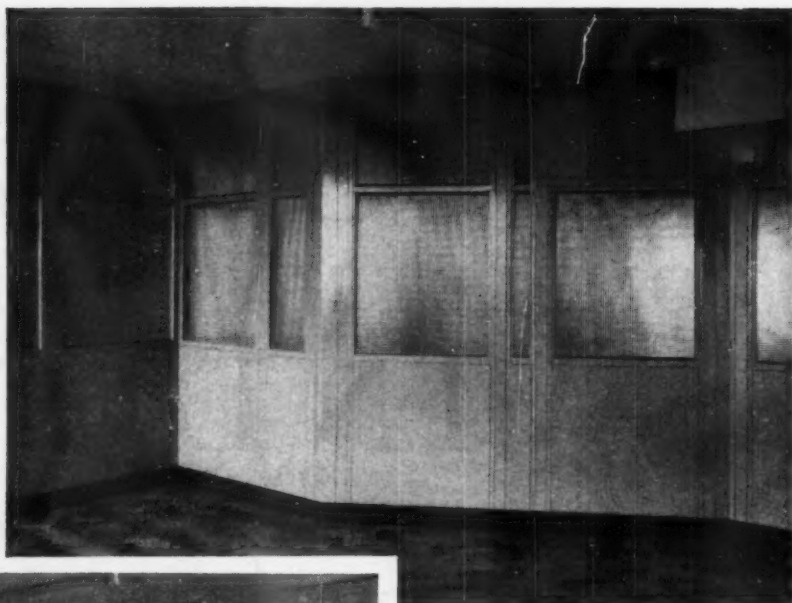
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*Friday, May 22
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ALPHABETICAL LIST

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Duresco Products Ltd.—822

E

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Fenton, Byrn & Co. Ltd.—719
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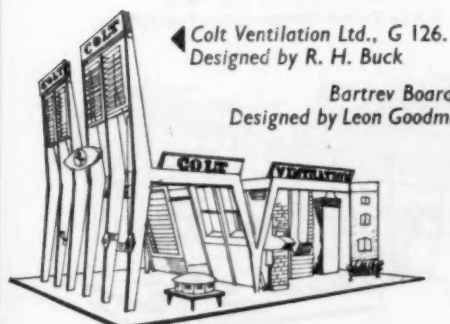
F.F. Tools Ltd.—O 226
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National Federation of
Building Trades' Employers,
584, 586. Designed by
Kenneth Lindy, Joseph Hill
& Partners

ALPHABETICAL LIST

Grand Hall (A1-L199); National Hall (M200-T279) and (T300-M333); Portcullis Avenue (T337-342); Empire Hall (Y344-Z358) and (Y360-U399); Grand Hall Annexe (L400-B492); Grand Hall Gallery (500-599); National Hall Gallery (600-683); Empire Hall Gallery (1st floor) (700-783); (2nd floor) (800-874)

Hamilton Star Ltd.—810
 Harford Pumps Ltd.—M 209
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 Works Ltd.—G 129
 Lovell & Hanson Ltd.—734

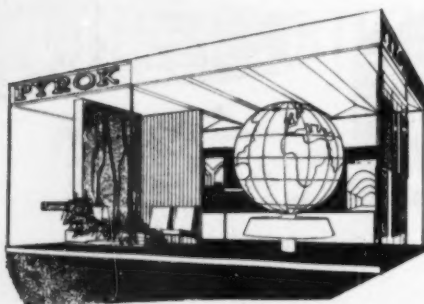
Low, James F., & Co. Ltd.—X 346
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 Machinery (Continental) Ltd.—G 442
 Maidenhead Brick & Tile Co. Ltd.—C 42
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 Munster Developments Co. (Fulham)
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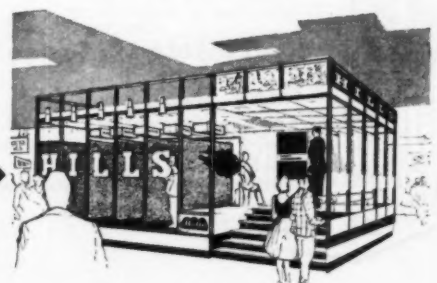
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 New England Lime Co.—B 22
 New Era Publishing Co. Ltd.—A 19
 Newsum, H., Sons & Co. Ltd.—736
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 Nordia Unit Kitchen Systems Ltd.—816/8
 North British Linoleum Co. Ltd.—749/50
 North British Plastics Ltd.—670
 North British Rubber Co.—T 278/9



Pyrock Ltd., D 67. Designed
 by John H. D. Madin, A.R.I.B.A.

F. Hills & Sons Ltd., K 170.
 Designed by Philip R.
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THE KEY ENGINEERING CO LTD · TEMPLE TUBES · UNION FIBRE PIPES (GREAT BRITAIN) LTD

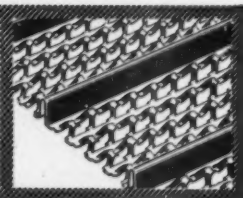
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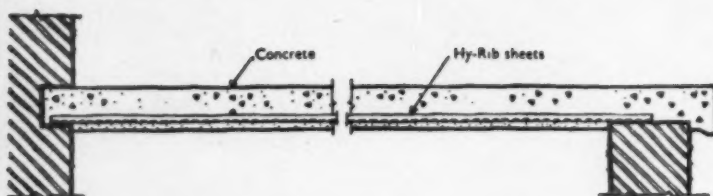
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A MULTI-PURPOSE MATERIAL strong, simple, economical

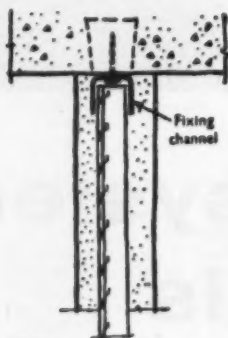


FLOOR AND ROOF SLABS

Hy-Rib is a combined centering and reinforcement that eliminates close-boarded shuttering and provides an excellent key for plaster on the soffit.

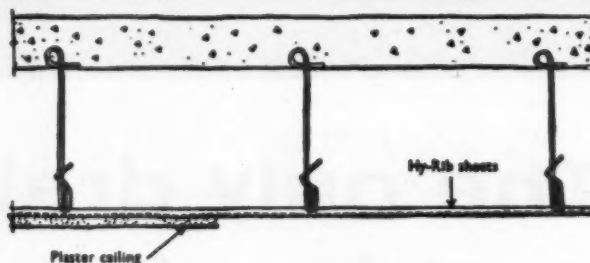
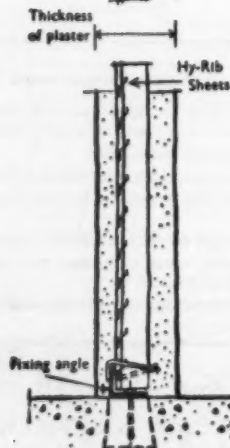
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Hy-Rib with metal lathing plaster on each face offers a thin partition, free from cracks and highly fire-resistant, from floor to ceiling. Thinness and fire resistance make Hy-Rib especially suitable where space is limited.



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Hy-Rib with three coats of plaster gives an unbroken surface, accurate alignment and a high fire-resistance. Hy-Rib makes possible curved ceilings with a minimum of special framing.

**SEE FOR YOURSELF THE MANY USES OF HY-RIB ON
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AT THE BUILDING EXHIBITION, OLYMPIA
NOVEMBER 18—DECEMBER 2, 1959**

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ALPHABETICAL LIST

Grand Hall (A1-L199); National Hall (M200-T279) and (T300-M333); Portcullis Avenue (T337-342); Empire Hall (Y344-Z358) and (Y360-U399); Grand Hall Annexe (L400-B492); Grand Hall Gallery (500-599); National Hall Gallery (600-683); Empire Hall Gallery (1st floor) (700-783); (2nd floor) (800-874)

North of England School of Furnishing Co.—779
Northern Aluminium Co. Ltd.—H 151
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Nufloor Ltd.—H 156
Nuralite Co. Ltd.—K 167/8
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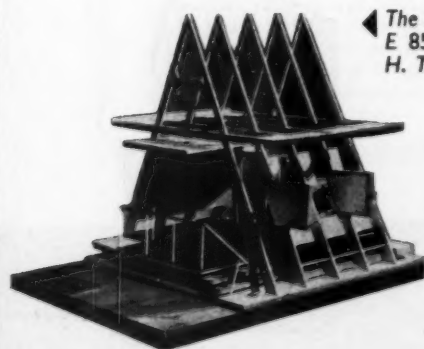
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Sponcel Ltd.—849



◀ The Expanded Metal Co. Ltd.,
E 85. Designed by Reginald
H. Treleaven, F.R.I.B.A.

R. Gay & Co., 811.
Designed by Derek Newton, M.S.I.A.



Evode Ltd., 744. Designed
by David Dry & Halasz



ALPHABETICAL LIST

Grand Hall (A1-L199); National Hall (M200-T279) and (T300-M333); Portcullis Avenue (T337-342); Empire Hall (Y344-Z358) and (Y360-U399); Grand Hall Annexe (L400-B492); Grand Hall Gallery (500-599); National Hall Gallery (600-683); Empire Hall Gallery (1st floor) (700-783); (2nd floor) (800-874)

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 Williamson, Jas., & Son Ltd.—749/50
 Wilmer Lea Foundries Ltd.—W 376
 Wilmer Lea Group.—W 376
 Wilmer Lea (Machine Tools) Ltd.—W 376
 Wilmer Lea (Wheels & Castors) Ltd.—W 376
 Wilson Bros. (Leeds) Ltd.—W 382
 Winfield Smith Engineering Supplies Ltd.—683
 Witlor Ltd.—E 463/5
 Wolf Electric Tools Ltd.—T 305/6
 Woods of Colchester Ltd.—861
 Woodworking Industry.—U 396
 Wright, V., (Leeds) Ltd.—606
 Wrighton, F., & Sons Ltd.—513

Y

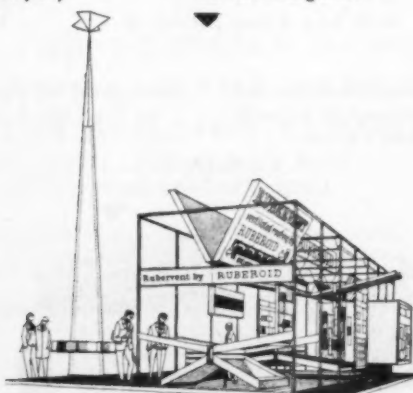
Yale & Towne Manufacturing Co.—711
 Yank, H., & Sons Ltd.—837
 Yorkshire Imperial Metals Ltd.—F 113/4
 Youngman, W. C., Ltd.—C 472/3

Z

Zanelli (London) Ltd.—600
 Zenith Maschinenfabrik GmbH.—F 448
 Zinc Alloy Co. (London) Ltd.—T 272
 Zinc Alloy Rust-Proofing Co. Ltd.—T 272
 Zinc Development Association.—B 27



Celotex Ltd., C 53/54.
 Designed by John
 Norman, of the company



Ruberoid & Co. Ltd.,
 Q 241/2. Designed by
 D.M.A. Design Ltd.



Fredk. Braby & Co. Ltd.,
 H 155. Designed by Ronald
 Dickens, M.B.E., F.S.I.A.



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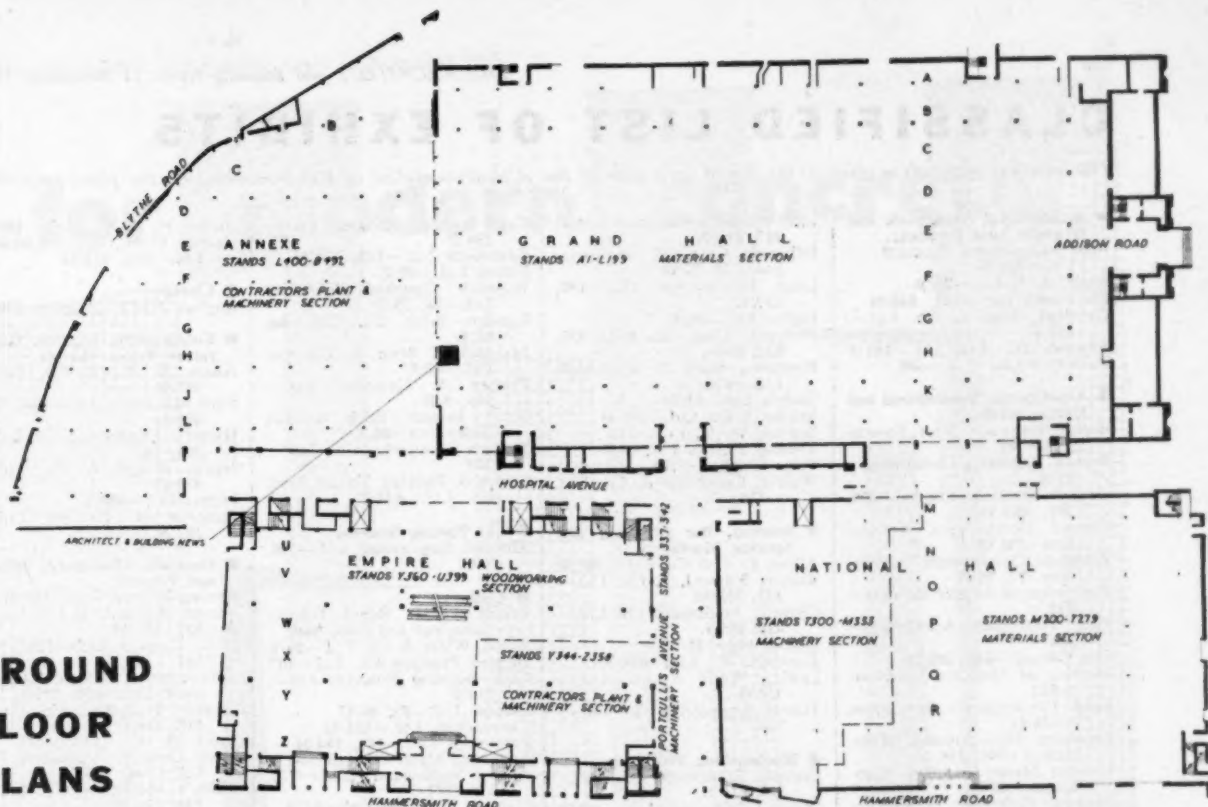
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CONTRACTORS

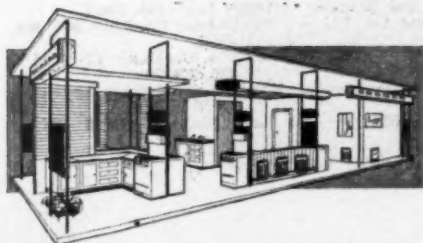
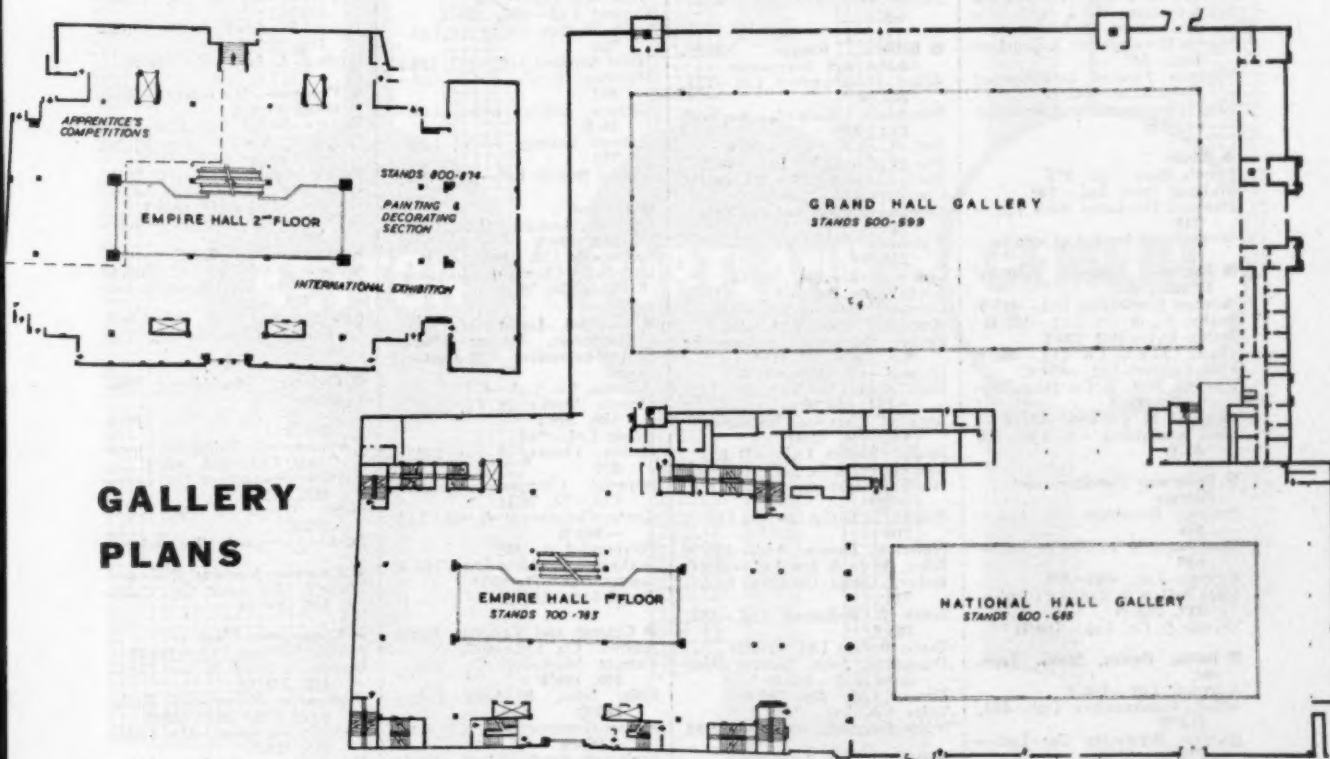
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department

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East Ham
Ltd., 588
Designed by
A. Why,
A.M.B.I.M.



CLASSIFIED LIST OF EXHIBITS

The location of stands is given at the top of each page of the Alphabetical List of Exhibitors and on the plans page 445.

● Architectural Metalwork and Wrought Iron Products

Ajax Architectural Products Ltd.—131/G
Binns, A. J., Ltd.—40/B
Eastwoods Ltd.—143, 144/H
Gardiner, Sons & Co. Ltd.—118/F
Johnson, G., Bros. Ltd.—101/F
Stewart Fraser Ltd.—608

● Associations, Professional and Development

British Iron and Steel Federation—742
British Standards Institution—11/A
Coal Utilization Council—200, 201, 202/M
Copper Development Association—248/Q
Electrical Development Association—97, 98/B
Federation of Master Builders—532
Fire Protection Association—506
Gas Council—244, 245/Q
Institute of Quantity Surveyors—522
Lead Development Association—138/G
Linoleum Manufacturers' Association—749, 750
London Master Builders' Association—584
National Federation of Building Trades Employers—584, 586
South-Eastern Brick and Tile Federation—80/E
Timber Development Association Ltd.—647
Vitreous Enamel Development Association—142/H
Zinc Development Association—27/B

● Banks

Lloyds Bank Ltd.—571
Midland Bank Ltd.—705
National Provincial Bank Ltd.—718
Westminster Bank Ltd.—567

● Barrows, Ladders, Painters' Trestles, etc.

Boulton Scaffolding Ltd.—417/L
Braby, F., & Co. Ltd.—155/H
Dohm Ltd.—193, 194/L
Drew, Clark & Co. Ltd.—401/L
Lyte Ladders Ltd.—474/C
Randall, Wm., & Co. (Horsham) Ltd.—100/E
Slingsby, H. C., Ltd.—461/E
Steel Scaffolding Co. Ltd.—62, 63/D

● Bathroom Furniture and Fittings

Barking Brassware Co. Ltd.—576
Downham, S. J., & Co. Ltd.—635
Formica Ltd.—589, 591
Ideal Boilers & Radiators Ltd.—217, 218/N
Shanks & Co. Ltd.—160/H

● Baths, Basins, Sinks, Taps, etc.

Adametz Ltd.—110/F
Allied Ironfounders Ltd.—211, 212/N
Barking Brassware Co. Ltd.—576
Barwell, James, Ltd.—16/A
Belco Manufacturing Co. (1939) Ltd.—2, 3/A
Bilston Foundries Ltd.—251/R
Bourner, F. H., & Co. (Engineers) Ltd.—260/S
Eastwoods Ltd.—143, 144/H
Fernberg Products Ltd.—771
Folkard, J. S. & F., Ltd.—601

● Ideal Boilers & Radiators Ltd.—217, 218/N

Imperial Chemical Industries Ltd.—74, 75/D
Leeds Fireclay Co. Ltd.—136, 137/G
Peglers Ltd.—96/E
Portugal, Casa de.—831, 832, 833, 834
Rownson, Drew & Clydesdale Ltd.—676
Sanbra Ltd.—61/D
Shanks & Co. Ltd.—160/H
Sissons, W. G. Ltd.—712
Thermo Plastics Ltd.—765
Valor Co. Ltd.—714
Walker, Crossweller & Co. Ltd.—706

● Bending, Bar Cropping and Spacing Machinery

Allam, E. P. & Co. Ltd.—307/R
Benton, Edward, & Co. Ltd.—332, 333/M
Cornely Equipment Co. Ltd.—415, 416/L
Hilmer Ltd.—21/B
Kennedy, W., Ltd.—456/E
Lawler, Ayers & Co. Ltd.—322/O
Tubela Engineering Co. Ltd.—722

● Blockmaking Machinery

Cornely Equipment Co. Ltd.—415, 416/L
Welding Industries Ltd.—462/E
Zenith-Maschinenfabrik GMBH.—448/F

● Boilers, Ranges, Stoves, Grates and Accessories

Allied Ironfounders Ltd.—211, 212/N
Baxendale, Richard, & Sons Ltd.—605
Bell, A., & Co. Ltd.—26/B
Bilston Foundries Ltd.—40/B
Bratt, Colbran Ltd.—203, 204/M
Chatwins Ltd.—215/N
Delmor Engineering Co. Ltd.—763
Federated Foundries Ltd.—226/O
Gas Council—244, 245/Q
Glow-Worm Boilers Ltd.—210/N
Groveley Heating Ltd.—621
Hattersley Bros. Ltd.—232/P
Hemel Hempstead Engineering Co. Ltd.—14, 15/A
Hurseal Ltd.—188, 189/L
Ideal Boilers & Radiators Ltd.—217, 218/N
Imperial Chemical Industries Ltd.—74, 75/D
Janitor Boilers Ltd.—171/K
Lawley, W. & J., Ltd.—662, 664
Nu-Way Heating Plants Ltd.—759
Portway, Charles, & Son Ltd.—716
Potterton, Thomas, Ltd.—213/N
Riley, A. J., & Son Ltd.—225/O
Rubery, Owen, (Heating) Ltd.—720
Smith & Wellstood Ltd.—184, 185/L
Tayco Boilers Ltd.—216/N
Thompson, John, Beacon Windows Ltd.—238/P
Trianco Ltd.—229, 230/P
Valor Co. Ltd.—714
Watts Automatic Boilers—208/M

● Bottled Gas Appliances

Calor Gas (Distributing) Co. Ltd.—673

● Bricks

Accrington Brick & Tile Co. Ltd.—152/H
Allied Brick & Tile Works Ltd.—29/B
Butterley Co. Ltd.—36/B

● Cape Building Products Ltd.—239/P

Eastwoods Ltd.—143, 144/H
Fisons Ltd.—50/C
Imperial Chemical Industries Ltd.—74, 75/D
London Brick Co. Ltd.—86, 87/E
Maidenhead Brick & Tile Co. Ltd.—42/C
Proctor & Lavender Ltd.—546, 548
South Eastern Brick & Tile Federation—80/E
Stanton Ironworks Co. Ltd.—747
Sussex & Dorking United Brick Co. Ltd.—117/F

● Car Parking Systems

Mitchell Engineering Ltd.—745, 746

● Ceilings

British Plaster Board (Manufacturing) Ltd.—83, 84/E
Bryce, White & Co. Ltd.—81/E
Burgess Products Co. Ltd.—617
Cape Building Products Ltd.—239/P
Celotex Ltd.—53, 54/C
Compactom Ltd.—121/G
Eastwoods Ltd.—143, 144/H
Expanded Metal Co. Ltd.—85/E
Falk, Stadelmann Ltd.—775, 776, 777
Gyproc Products Ltd.—32/B
Hermesal Ltd.—35/B
Hurseal Ltd.—188, 189/L
Jablo Plastics Industries Ltd.—730
Metal Sections Ltd.—127, 128/G
Morrison, R. F., & Co. Ltd.—841
Siemens Edison Swan Ltd.—25/B
Stramax Ceilings (G.B.) Ltd.—733
Stramit Boards Ltd.—197, 198/L

● Cement

Cement Marketing Co. Ltd.—108, 109/F
Eastwoods Ltd.—143, 144/H
Imperial Chemical Industries Ltd.—74, 75/D

● Cements, Acid-proof, Hardeners, Mortar Mixers, Anti-corrosive, Refractory, etc.

Adamite Co. Ltd.—677
Cement Marketing Co. Ltd.—108, 109/F
Evode Ltd.—744
Hedley, Thomas & Co. Ltd.—679
Imperial Chemical Industries Ltd.—74, 75/D
Kerner-Greenwood & Co. Ltd.—163/K
Polybond Ltd.—502
Sealocrete Products Ltd.—158/H
Sextex Ltd.—71, 72/D
Tretol Ltd.—154/H

● Cement and Concrete Paints

Adamite Co. Ltd.—677
Cement Marketing Co. Ltd.—108, 109/F
Ellis, John, & Sons Ltd.—240/Q
Kerner-Greenwood & Co. Ltd.—163/K
Sealocrete Products Ltd.—158/H

● Cement Silos and Storage

Cornely Equipment Co. Ltd.—415, 416/L

● Cloakroom Fittings

Arkinstall Bros. (Bromsgrove) Ltd.—838
Binns, A. J., Ltd.—657

● Braby, F., & Co. Ltd.—155/H

Harvey, G. A., & Co. (London) Ltd.—132, 133/G

● Clocks

English Clock Systems—180/K

● Compressors, Engines, Generators, Prime Movers

Allam, E. P., & Co. Ltd.—307/R
Ford Motor Co. Ltd.—404, 405, 406/L
Hymatic Engineering Co. Ltd.—761, 762
Neale, Wright & Co. Ltd.—479/C
Petters Ltd.—308/T
Stenners of Tiverton Ltd.—387/V

● Concrete Machinery, Mixers and Poursers

Aveling-Barford Ltd.—329/O
Benton, Edward, & Co. Ltd.—332, 333/M
CCC Carriers Ltd.—339, 340, 341
Contractors & Industrial Equipment Ltd.—419, 420/L
Cornely Equipment Co. Ltd.—415, 416/L
Kunz, H. K., Ltd.—361/Y
Liner Concrete Machinery Co. Ltd.—348, 349/X
Millar's Machinery Co. Ltd.—330, 331/M
Neale, Wright & Co. Ltd.—479/C
Parker, Frederick, & Co. Ltd.—316, 317/P
Stothert & Pitt Ltd.—310/R

● Concrete Machinery, Shut-tering Forms

Bartrev Board Co. Ltd.—31/B
British Building & Engineering Appliances Ltd.—444/G
British Plumber Ltd.—147/H
Contractors & Industrial Equipment Ltd.—419, 420/L
Jablo Plastics Industries Ltd.—730
Kwikform Ltd.—439/G
Mills Scaffold Co. Ltd.—438/G
Rapid Metal Developments Ltd.—421, 422/H
Rawlplug Co. Ltd.—191, 192/L
Scaffolding (Great Britain) Ltd.—104/F

● Concrete Machinery, Vibrators

Allam, E. P., & Co. Ltd.—307/R
Contractors & Industrial Equipment Ltd.—419, 420/L
Cornely Equipment Co. Ltd.—415, 416/L
Neale, Wright & Co. Ltd.—479/C
Wittor Ltd.—463, 464, 465/E

● Concrete Vacuum Process

Millar's Machinery Co. Ltd.—330, 331/M

● Contractors Plant

Aveling-Barford Ltd.—329/O
Benton, Edward & Co. Ltd.—332, 333/M
Contractors & Industrial Equipment Ltd.—419, 420/L
Cornely Equipment Co. Ltd.—415, 416/L
Doe, Ernest & Sons Ltd.—443/G
Dohm Ltd.—193, 194/L
Ford Motor Co. Ltd.—404, 405, 406/L
Millar's Machinery Co. Ltd.—330, 331/M
Parker, Frederick, Ltd.—316, 317/P
Roiba Co. Ltd.—482/B

for modern concrete

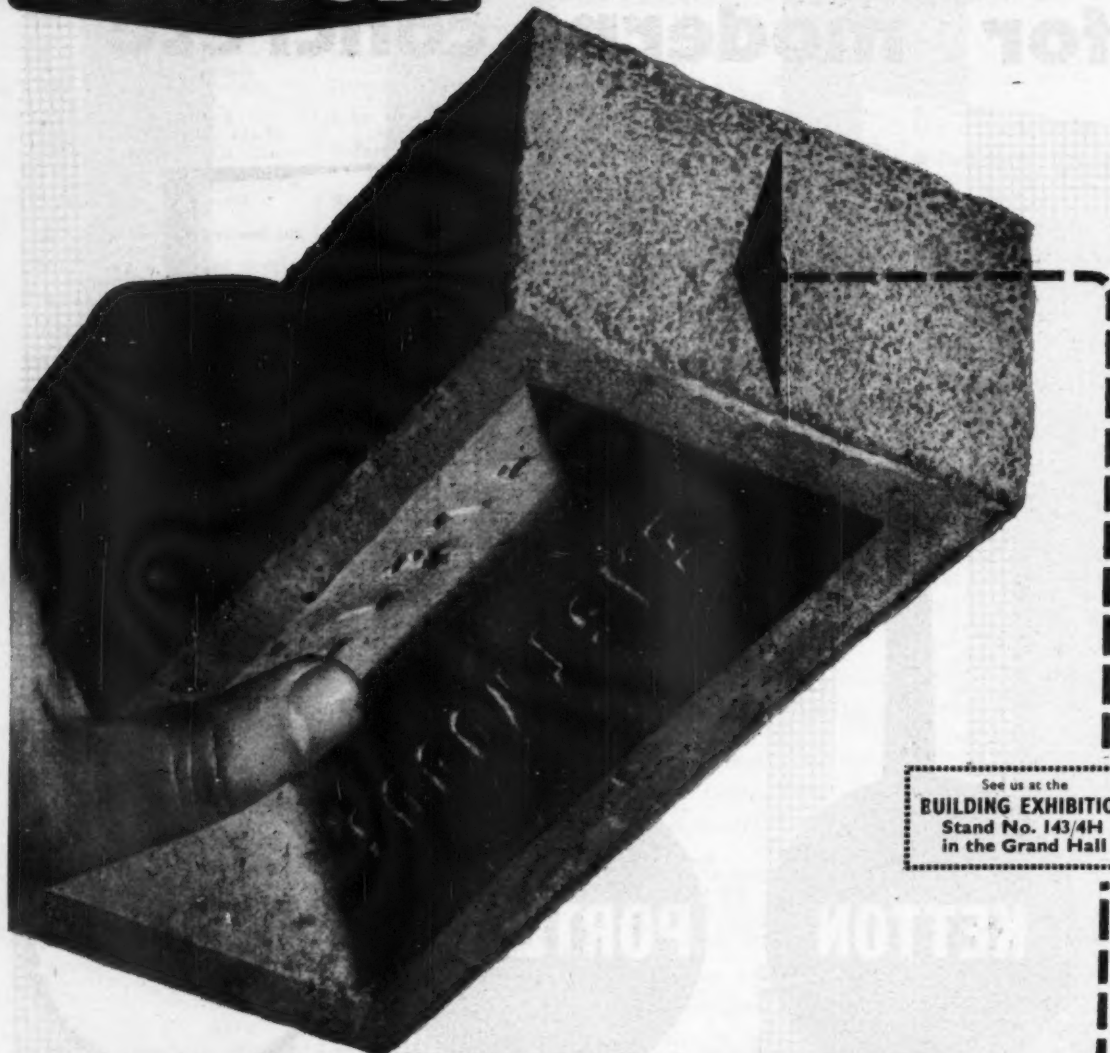
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CLASSIFIED LIST

The location of stands is given at the top of each page of the Alphabetical List of Exhibitors and on the plans page 445.

Saunders, H. A., Ltd.—402, 403/L
Stothert & Pitt Ltd.—310/R
Weatherill, F. E., Ltd.—427, 428/H
Whitlock Bros. Ltd.—432, 433/H
Witlor Ltd.—463, 464, 465/E
Zenith-Machinenfabrik GMBH—448/F

● **Cranes, Hoists, Conveyors, Cradles and Fittings**
Cornely Equipment Co. Ltd.—415, 416/L
Mills Scaffold Co. Ltd.—438/G
Palmer Travelling Cradle & Scaffold Co. Ltd.—434, 435/H
Parker, Frederick, Ltd.—316, 317/P
Warry Engineering Ltd.—484, 485
Witlor Ltd.—463, 464, 465/E
Youngman, W. C., Ltd.—472, 473/C

● **Curtain Walling**
Ajax Architectural Products Ltd.—131/G
Barnes & Fletcher Ltd.—845
Braby, F., & Co. Ltd.—155/H
British Aluminium Co. Ltd.—237/P
Cobb, K. L., Group—516, 518
Crittall Manufacturing Co. Ltd.—88, 89/E
Holoplast Ltd.—234/P
Hope, Henry, & Sons Ltd.—78, 79/D
Jablo Plastics Industries Ltd.—730
Jones, H. C., Ltd.—57/C
Newsam, H., Sons & Co. Ltd.—736
Quicktho Engineering Ltd.—729
Stramit Boards Ltd.—197, 198/L
Thompson, John, Beacon Windows Ltd.—238/P
U.A.M. Group of Companies—782
Williams, John, & Sons (Cardiff) Ltd.—103/F

● **Dampcourses, Roofing Felt and Waterproof Materials**
Anderson, D., & Son Ltd.—94, 95/E
Berry Wiggins & Co. Ltd.—34/B
Briggs, William & Sons Ltd.—45/C
Cement Marketing Co. Ltd.—108, 109/F
Evo-de Ltd.—744
Expandite Ltd.—175/K
Fibreglass—77/D
Imperial Chemical Industries Ltd.—74, 75/D
Kerner-Greenwood & Co. Ltd.—163/K
Latter, A., & Co. Ltd.—675
Limmer & Trinidad Group—105/F
Ruberoid Co. Ltd.—241, 242/Q
Sealocrete Products Ltd.—158/H

Tretol Ltd.—154/H
United Paint Co. Ltd.—815

● **Doors, Board and Composition**
Ajax Architectural Products Ltd.—131/G
British Werno Ltd.—613
Giksten, J., & Co. Ltd.—125/G
Hills, F., & Sons Ltd.—170/K
Jayanbee Joinery Ltd.—534, 536
Novobord (U.K.) Ltd.—637

● **Doors, Garage and Industrial**
Austin's of East Ham Ltd.—588
Bolton Gate Co. Ltd.—66/D
Burgess Products Co. Ltd.—617
Durasteel Ltd.—269/S, 270/T
Ellard Sliding Door Gears Ltd.—598
Esavian Ltd.—38, 39/B
Hill Aldam, E., & Co. Ltd.—106/F
Westland Engineers Ltd.—70/D

● **Doors, Glass**
London Sand Blast Decorative Glass Works Ltd.—129/G
Pilkington Bros. Ltd.—115, 116/I
Price, D. W., & Son Ltd.—196/L

● **Doors, Metal**
Ajax Architectural Products Ltd.—131/G
Avery, J., & Co. (Est. 1834) Ltd.—539
Bolton Gate Co. Ltd.—66/D
Crittall Manufacturing Co. Ltd.—88, 89/E
Durasteel Ltd.—269/S, 270/T
Esavian Ltd.—38, 39/B
Johnson, G., Bros. Ltd.—101/F
Thompson, John, Beacon Windows Ltd.—238/P

● **Doors, Wood**
Austin's of East Ham Ltd.—588
Boulton & Paul Ltd.—246, 247/Q
Bryce, White & Co. Ltd.—81/E
Giksten, J., & Sons Ltd.—125/G
Hills, F., & Co. Ltd.—170/K
Jones, H. C., & Co. Ltd.—57/C
Jayanbee Joinery Ltd.—534, 536
Sadd, John, & Sons Ltd.—43/C
Shapland & Pether Ltd.—259/R

● **Door and Window Furniture and Decorative Lettering**
Binns, A. J., Ltd.—40/B
Crompton, Thomas, & Sons Ltd.—540
Hill Aldam, E., & Co. Ltd.—106/F
Johnson, G., Bros. Ltd.—101/F
Lacrinoid Products Ltd.—190/L
Parkes, Josiah, & Sons Ltd.—764
Rhodes Chains Ltd.—596
Scandinavian Furnishings—835

Skarsten Manufacturing Co. Ltd.—820
Teleflex Products Ltd.—233/P
Tomo Trading Co. Ltd.—195/L
Ward & Co. (Letters) Ltd.—707
Yale & Towne Manufacturing Co. Ltd.—711

● **Double Glazing Units**
Crittall Manufacturing Co. Ltd.—88, 89/E
Pilkington Bros. Ltd.—115, 116/F
Plyglass Ltd.—512
Thompson, John, Beacon Windows Ltd.—238/P
Tomo Trading Co. Ltd.—195/L
Williams, John, & Sons (Cardiff) Ltd.—103/F

● **Drain Cleaning and Testing Equipment**
Ward's Flexible Rod Co. Ltd.—182/L

● **Draught Excluders**
Duraflex Housecrafts Ltd.—830
Hermesal Ltd.—35/B
Hursel Ltd.—188, 189/L
Secomastic Ltd.—174/K

● **Drawing Office and Surveying Equipment**
Griffin & George Ltd.—629
Hilger & Watts Ltd.—731, 732
Neale, Wright & Co. Ltd.—479/C

● **Drills and Drilling Equipment**
Bridges, S. N., & Co. Ltd.—301, 302/S
British Equipment Co. Ltd.—323/O
Holemasters Ltd.—356/Y
Hymatic Engineering Co. Ltd.—761, 762
Impregnated Diamond Products Ltd.—331/Q
Perkins, John M., & Smith Ltd.—357/Z
Rawplug Co. Ltd.—191, 192/L
Trend Industrial Equipment Ltd.—321/P
Wolf Electric Tools Ltd.—305, 306/T

● **Ducting**
Ascot Gas Water Heaters Ltd.—235/P
Braby, F., & Co. Ltd.—155/H
Brightside Heating & Engineering Co. Ltd.—663, 665
Burgess Products Co. Ltd.—617
Ductube Ltd.—527, 529
Durasteel Ltd.—269/S, 270/T
Greenwood-Airvac Conduits Ltd.—594
Key Engineering Co. Ltd.—145, 146/H
Metal Sections Ltd.—127, 128/G
True Flue Ltd.—12, 13/A

● **Dumpers, Dozers and Earth Moving Equipment**
Aveling-Barford Ltd.—329/O

CCC Carriers Ltd.—339, 340, 341
Doe, Ernest, & Sons Ltd.—443/G
Ford Motor Co. Ltd.—404, 405, 406/L
Liner Concrete Machinery Co. Ltd.—348, 349/X
Neale, Wright & Co. Ltd.—479/C
Saunders, H. A., Ltd.—402, 403/L
Steel Fabricators (Cardiff) Ltd.—429/H
Thwaites Engineering Co. Ltd.—452/E
Weatherill, F. E., Ltd.—427, 428/H
Whitlock Bros. Ltd.—432, 433/H

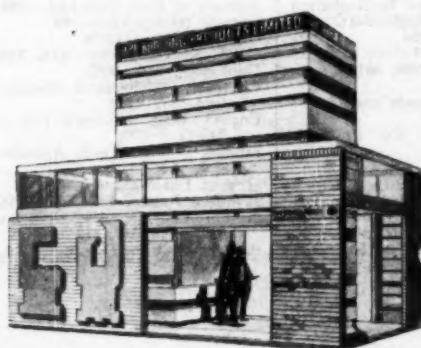
● **Dust Control Equipment**
Dallow Lambert & Co. Ltd.—380/W

● **Excavators and Loaders**
Bamford, J. C., (Excavators) Ltd.—476, 477, 478/C
Bray Construction Equipment Ltd.—431, 432/H
Doe, Ernest, & Sons Ltd.—443/G
Parker, Frederick, Ltd.—316, 317/P
Saunders, H. A., Ltd.—402, 403/L
Steel Fabricators (Cardiff) Ltd.—429/H
Weatherill, F. E., Ltd.—427, 428/H
Whitlock Bros. Ltd.—432, 433/H
Witlor Ltd.—463, 464, 465/E

● **Fencing and Gates**
Binns, A. J., Ltd.—40/B
Bryce, White & Co. Ltd.—81/E
Penfold Fencing & Engineering Co. Ltd.—28/B

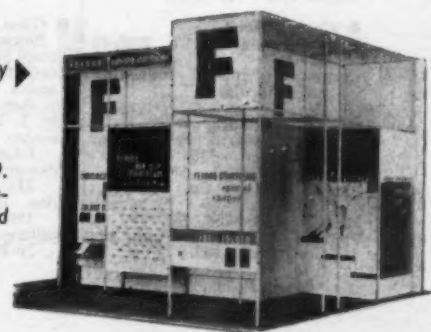
● **Fire Alarms**
Rely-a-Bell Burglar & Fire Alarm Co. Ltd.—537

● **Fire Retardant Constructions, Coatings and Control Techniques**
Atlas Stone Co. Ltd.—24/B
Briggs, William, & Sons Ltd.—45/C
British Werno Ltd.—613
Cape Building Products Ltd.—239/P
Celotex Ltd.—53, 54/C
Dohm Ltd.—193, 194/L
Durasteel Ltd.—269/S, 270/T
Gyproc Products Ltd.—32/B
Hickson's Timber Impregnation Co. (G.B.) Ltd.—56/C
Imperial Chemical Industries Ltd.—74, 75/D
Insulated Unit Constructions Ltd.—841a
Kenyon, William, & Sons (Meta Mica) Ltd.—22/B
Pearl Varnish Co. Ltd.—813
Pyrok Ltd.—67/D



Ferodo Ltd., C 48. Designed by Keith Cunningham, A.R.C.A.

Cape Building Products Ltd., P 239. Designed by Merlyn Evans, in conjunction with Nigel Farrington and John Dennys, A/A.R.I.B.A.



CLASSIFIED LIST

The location of stands is given at the top of each page of the Alphabetical List of Exhibitors and on the plans page 445.

Sprayed Insulations Ltd.—538
Stramit Boards Ltd.—197, 198/L
Turners Asbestos Cement Co.
Ltd.—51, 52/C
U.A.M. Group of Companies—
782

● **Fireplaces**
Bell, A., & Co. Ltd.—26/B
Candy & Co. Ltd.—119/F
English Fireplaces (Galleon)
Ltd.—107/F
Packard & Ord Ltd.—130/G

● **Floor Polishing and Cleaning
Machines**
Columbus-Dixon Ltd.—99/E
Progress (Universal) Ltd.—839
Sundstrand Sanders Ltd.—511

● **Floors and Floor Coverings,
Asbestos**
Armstrong Cork Co. Ltd.—92,
93/E

● **Floors, Asphalt**
Limmer & Trinidad Group of
Companies—105/F

● **Floors, Composition**
Elder Reed, A., & Co. (Sales)
Ltd.—140/G
Granwood Flooring Co. Ltd.—
643
Quilgotti, A., & Co. Ltd.—
162/K
Semtex Ltd.—71, 72/D

● **Floors, Concrete and Cement
Materials**
Adamite Co. Ltd.—677
Concrete Ltd.—64, 65/D
Ductube Co. Ltd.—527, 529
Omnia Constructions Ltd.—
187/L
Quilgotti, A., & Co. Ltd.—
162/K
Snowtop Products Ltd.—592

● **Floors, Cork**
Acme Flooring & Paving Co.
(1904) Ltd.—520
Armstrong Cork Co. Ltd.—92,
93/E
British Technical Cork Products
Ltd.—725
Limmer & Trinidad Group of
Companies—105/F
Portugal, Casa de—831, 832,
833, 834
Robinson Bros. Cork Growers
Ltd.—271/T
Semtex Ltd.—71, 72/D

● **Floors, Heavy Duty**
Dohm Ltd.—193, 194/L
Elder Reed, A., & Co. (Sales)
Ltd.—140/G
Limmer & Trinidad Group of
Companies—105/F
Quilgotti, A., & Co. Ltd.—
162/K
Snowtop Products Ltd.—592

● **Floors, Linoleum**
Acme Flooring & Paving Co.
(1904) Ltd.—520
Armstrong Cork Co. Ltd.—92,
93/E
Linoleum Manufacturers' Asso-
ciation—749, 750
Semtex Ltd.—71, 72/D

● **Floors, Metal**
British Aluminium Co. Ltd.—
237/P
Imperial Chemical Industries
Ltd.—74, 75/D

● **Floors, Plastics**
Acme Flooring & Paving Co.
(1904) Ltd.—520
Adamite Co. Ltd.—677
Armstrong Cork Co. Ltd.—92,
93/E
Dermdie Ltd.—766, 767
Limmer & Trinidad Group of
Companies—105/F

Marley Tile Co. Ltd.—149,
150/F
Semtex Ltd.—71, 72/D

● **Floors, Rubber**
Acme Flooring & Paving Co.
(1904) Ltd.—520
Bulgomme-Silence Flooring—
703
Semtex Ltd.—71, 72/D

● **Floors, Tile**
Adamite Co. Ltd.—677
Carter & Co. (London) Ltd.—
73/D
Elder Reed, A., & Co. (Sales)
Ltd.—140/G
Langley London Ltd.—111,
112/F
Limmer & Trinidad Group of
Companies—105/F
Marley Tile Co. Ltd.—149,
150/L
Quilgotti, A., & Co. Ltd.—
162/K
Snowtop Products Ltd.—592

● **Floors, Wood**
Acme Flooring & Paving Co.
(1904) Ltd.—520
Barnes & Fletcher Ltd.—845
Bryce, White & Co. Ltd.—81/E
Canadian Government—648,
649
Marley Tile Co. Ltd.—149,
150/L

● **Floors, Other special
Materials**
Acme Flooring & Paving Co.
(1904) Ltd.—520
Bartrev Board Co. Ltd.—31/B
Barwin, P. Ltd.—521
Butterley Co. Ltd.—36/B
Carter & Co. (London) Ltd.—
73/D
Dexion Ltd.—737
Elder Reed, A., & Co. (Sales)
Ltd.—140/G
Evode Ltd.—744
Granwood Flooring Co. Ltd.—
643
Mills Scaffold Co. Ltd.—438/G
Progress (Universal) Ltd.—839
Semtex Ltd.—71, 72/D
Sissons Bros. & Co. Ltd.—515
Snowtop Products Ltd.—592

● **Flues and Flue Units**
Federated Foundries Ltd.—
226/O
Gas Council—244, 245/Q
Hattersley Bros. Ltd.—232/P
O.H. Ltd.—778
Omnia Constructions Ltd.—
187/L
True Flue Ltd.—12, 13/A
Turners Asbestos Cement Co.
Ltd.—51, 52/C
U.A.M. Group of Companies—
782

● **General Contractors**
Holloway Group of Companies
—531
Mitchell Engineering Ltd.—
745, 746

● **Glass, including Bricks,
Blocks, Tiling, Decorative**
Candy & Co. Ltd.—119/F
Corroglaze—583
Finnish Foreign Trade Associa-
tion—846, 847
Ide, T. W., Ltd.—164/K
London Sand Blast Decorative
Glass Works Ltd.—129/G
Pilkington Bros. Ltd.—115,
116/F
Price, D. W., & Son Ltd.—
196/L
Williams, Dennis M., Ltd.—
30/B

● **Glues and Adhesives**
Armstrong Cork Co. Ltd.—92,
93/E
B.B. Chemical Co. Ltd.—755
Berry Wiggins & Co. Ltd.—
34/B
Canadian Government—648,
649
Ciba (A.R.L.), Ltd.—651, 653
Evode Ltd.—744
Leicester, Lovell & Co. Ltd.—
634, 636
Polybond Ltd.—502
Polycell Products Ltd.—827,
828

● **Government, Council and
Educational Departments**
British Transport Commission—
641
Canadian Government—648,
649
Finnish Foreign Trade Associa-
tion—846, 847
General Post Office—550
Ministry of Works—551, 553,
555
National Coal Board—148/H
Portugal, Casa de—831, 832,
833, 834

● **Hammers, Bolt Driving Guns**
Bourner, F. H., Fixings Ltd.—
260/S
British Equipment Co. Ltd.—
323/O
Contractors & Industrial Equip-
ment Ltd.—419, 420/L
Explosive Power Tools Ltd.—
489/B
J.K.O. Cutters Ltd.—371/X
Ramset Fasteners (U.K.) Ltd.—
400a/L
Spotnails Ltd.—355/Y
Trend Industrial Equipment Ltd.
321/P
Ucan Development Ltd.—351/Y

● **Hardwoods and Softwoods,
Timber Merchants**
Canadian Government—648,
649
Gliksten, J., & Sons Ltd.—
125/G
Meyer, Montague L., Ltd.—
263/S, 525

● **Heat Pumps**
Allied Ironfounders Ltd.—211,
212/N
Bratt Colbran Ltd.—203, 204/M
English Rose Kitchens Ltd.—
249/Q

● **Hollow Blocks**
London Brick Co. Ltd.—86,
87/E
Pilkington Bros. Ltd.—115,
116/F

● **Hospital Equipment**
Adamsez Ltd.—110/F
Shanks & Co. Ltd.—160/H

● **Insecticides, Fumigators and
Wood Preservatives**
Falkner, J. W., & Sons Ltd.—
549
Hickson's Timber Impregnation
Co. (G.B.) Ltd.—36/C
Pesture Ltd.—504
Protim Ltd.—777
Rentokil Ltd.—500, 501

● **Insulating Boards and
Materials**
Armstrong Cork Co. Ltd.—92,
93/E
Atlas Stone Co. Ltd.—24/B
British Celanese Ltd.—615
British Plaster Board (Manufac-
turing) Ltd.—83, 84/E
British Xylonite Group—530
Burgess Products Co. Ltd.—617
Canadian Government—648, 649

Cape Building Products Ltd.—
239/P
Celotex Ltd.—53, 54/C
Cordar Ltd.—639
Dohm Ltd.—193, 194/L
Durasteel Ltd.—269/S, 270/T
Eastwoods Ltd.—143, 144/H
Fibreglass Ltd.—77/D
Finnish Foreign Trade Associa-
tion—846, 847
Gliksten, J., & Son Ltd.—125/G
Hermesal Ltd.—35/B
Hickson's Timber Impregnation
Co. (G.B.) Ltd.—56/C
Hurseal Ltd.—188, 189/L
Insulated Unit Constructions
Ltd.—841a

Jablo Plastics Industries Ltd.—
730
Kenyon, Wm., & Sons (Meta-
mica) Ltd.—22/B
Latter, A., & Co. Ltd.—675
Marley Tile Co. Ltd.—149,
150/L
Metal Sections Ltd.—127, 128/G
Portugal, Casa de—831, 832, 833,
834
Pyrok Ltd.—67/D
Robinson Bros. Cork Growers
Ltd.—271/T
Ruberoid Co. Ltd.—241, 242/Q
S.F.I.M. (Great Britain) Ltd.—
728
Sprayed Insulations Ltd.—538
Stramit Boards Ltd.—197, 198/L
U.A.M. Group of Companies—
782

● **Joinery, Carving, Moulding
and Panellings**
Austin's of East Ham Ltd.—588
Boulton & Paul Ltd.—246,
247/Q
Bryce, White & Co. Ltd.—81/E
Janes, H. C., Ltd.—57/C
Jayanbee Joinery Ltd.—534, 536
Leboff, S., Ltd.—641a
Shapland & Pether Ltd.—259/R

● **Joint Sealing Compounds and
Expansion Jointing**
B.B. Chemical Co. Ltd.—755
British Xylonite Group of Com-
panies—530
Celotex Ltd.—53, 54/C
Evode Ltd.—744
Expandite Ltd.—175/K
Holloway Metal Roofs Ltd.—
568
Imperial Chemical Industries
Ltd.—74, 75/D
Jablo Plastics Industries Ltd.—
730
North British Rubber Co. Ltd.
278, 279/T
Polybond Ltd.—502
U.A.M. Group of Companies—
782

● **Kiln Drying Equipment**
Kunz, H. K., Ltd.—361/Y

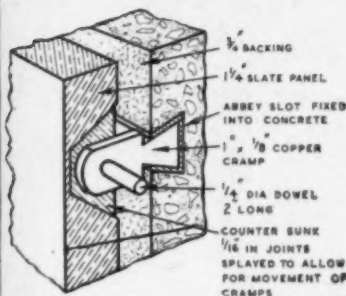
● **Kitchen and Canteen
Equipment and Fittings**
Andrews Bros. (Bristol) Ltd.—
533
Arthur Productions (Clydebank)
Ltd.—671
Austin's of East Ham Ltd.—588
Cannon (G.A.) Ltd.—760
Chatwins Ltd.—215/N
Cobb, K. L., Group—516, 518
Dahl Bros. Ltd.—682
Electrical Development Associa-
tion—97, 98/B
English Rose Kitchens Ltd.—
249/Q
Finnish Foreign Trade Associa-
tion—846, 847
Hygena Ltd.—774
Jayanbee Joinery Ltd.—534, 536
Nordia Unit Kitchen Systems
Ltd.—816, 817, 818
Peerless Built-in Furniture Ltd.
—41/C

Broughton Moor Light Sea Green Slate

lends added distinction to SHELL'S new headquarters at South Bank, London

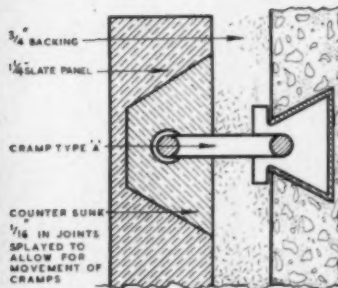


It was to be no ordinary building, and no ordinary facing slate would do. That is why Messrs. Easton and Robertson chose Broughton Moor Light Sea Green (frame sawn and finely rubbed). They know it to be the ideal slate for both internal and external facing. They know, too, that centuries hence it will be still sound and beautiful. Architects can specify Broughton Moor slate in three shades and a variety of delightful finishes. There is nothing quite like Broughton Moor for facings, pavings, steps, cills, pilasters, fireplaces and indeed, most architectural purposes.



TYPICAL CRAMP

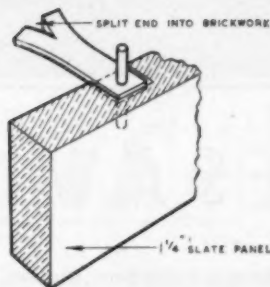
A 1" x 1/2" copper cramp is (a) dowelled into a 1/16" splayed countersunk in a panel of Broughton Moor slate, and (b) set into an Abbey slot in the concrete.



CRAMP TYPE A



Splayed countersunk and swivel type cramp makes ample allowance for movement.



CRAMP TYPE B Cramp and Pin

One end of 4"-long cramp is split for setting into brickwork. The other is drilled to receive 2" long pin.

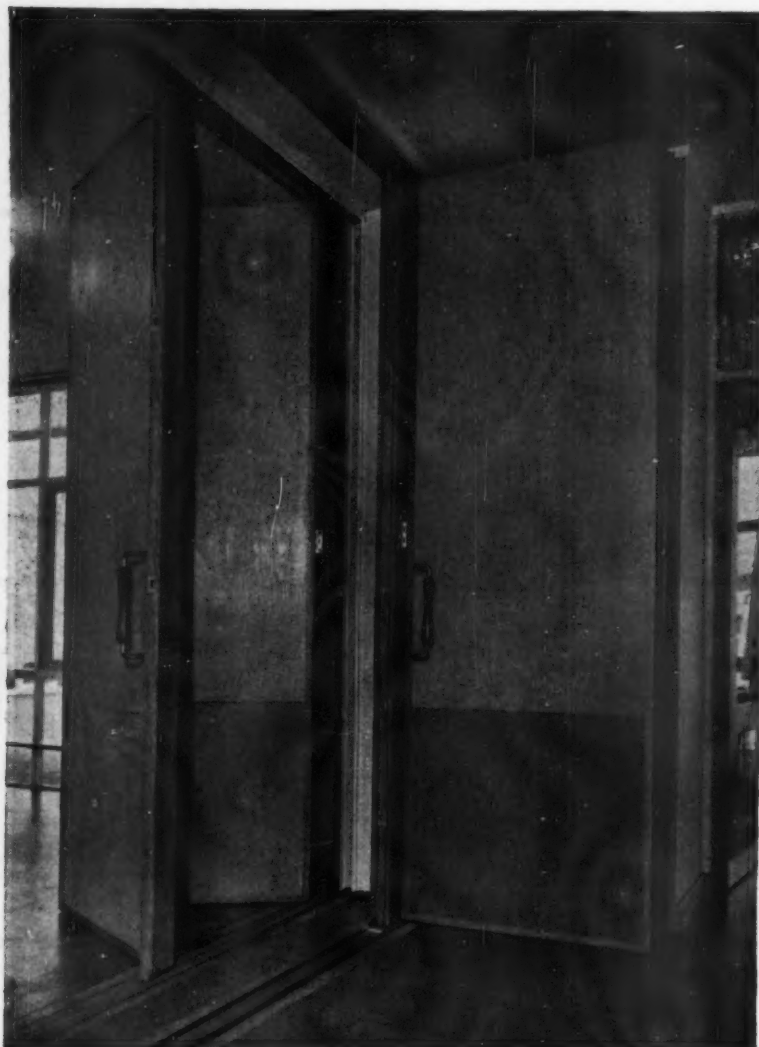
Broughton Moor

GREEN SLATE QUARRIES LTD

We shall be happy to send on request technical pamphlets showing typical fixing methods for:

1. Flooring.
2. Facings.
3. Copings.
4. Cills.
5. Riven face slabs.

CONISTON, THE LAKE DISTRICT, LANCs. TELEPHONE: CONISTON 225/6



Noise politely shown the door

At Amersham School, these newly-installed Esavian screens shut out noise neatly and effortlessly. They have a sound-absorbent interior face and, on the outside, are finished flush with polished plywood. Vertical and horizontal seals and their internal construction provide a high degree of sound deadening. A reversible cill gives a perfectly flush floor when the screens are folded back. Top marks.

Esavian folding and sliding doors, screens and partitions are well worth knowing more about . . .



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Architects Department and
the Building Research Station
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CLASSIFIED LIST

The location of stands is given at the top of each page of the Alphabetical List of Exhibitors and on the plans page 445.

Redwing Ltd.—582
Rownson, Drew & Clydesdale Ltd.—676
Sissons, W. & G., Ltd.—712
Smith & Wellstood Ltd.—184, 185/L
Wrighton, F., & Sons Ltd.—513

● **Laboratory Furniture and Equipment**
Brown, Donald, (Brownall) Ltd.—843, 844
Cygnet Joinery Ltd.—735
Econa Modern Products Ltd.—23/B
Folkard, J. S., & F., Ltd.—601
Formica Ltd.—589, 591
Griffin & George Ltd.—629
Shapland & Petter Ltd.—259/R

● **Laminated Plastics, Decorative**
Bakelite Ltd.—69/D
Canadian Government—648, 649
Formica Ltd.—589, 591
Hills, F., & Sons Ltd.—170/K
Holoplast Ltd.—234/P
Lacoonite Ltd.—666, 668
Leboff, S., Ltd.—641a
Marley Tile Co.—149, 150/L
North British Plastics Ltd.—670

● **Lighting, Domestic, Industrial, Floodlighting and Streetlighting**
Atlas Lighting Ltd.—708
Celotex Ltd.—53, 54/C
Falk, Stadelmann Ltd.—775, 776, 777
Imperial Chemical Industries Ltd.—74, 75/D
Lacrinoid Products Ltd.—190/L
S.F.I.M. (Great Britain) Ltd.—728

Scandinavian Furnishings—835
Siemens Edison Swan Ltd.—25/B
Stewarts & Lloyds Ltd.—257, 258/R

● **Locks and Safes**
Binns, A. J., Ltd.—40/B
Finnish Foreign Trade Association—846, 847
Parkes, Josiah & Sons Ltd.—764
Yale & Towne Manufacturing Co. Ltd.—711

● **Loft Ladders**
Drew, Clark & Co. Ltd.—401/L
Lyte Ladders Ltd.—474/C
Randall, Wm., & Co. (Horsham) Ltd.—100/E
Slingsby, H. C., Ltd.—461/E

● **Lubricants**
Berry Wiggins & Co. Ltd.—34/B
Revol Ltd.—659

● **Marbles and Mosaics**
Barwin, P., Ltd.—521
Candy & Co. Ltd.—119/F
Carter & Co. (London) Ltd.—73/D
Elder Reed, A., & Co. (Sales) Ltd.—140/G

Langley London Ltd.—111, 112/F
Mosaic & Terrazzo Precast Co. (Staines) Ltd.—592
Portugal, Casa de—831, 832, 833, 834
Proctor & Lavender Ltd.—546, 548
Quilgotti, A., & Co. Ltd.—162/K
Williams, Dennis M., Ltd.—30/B

● **Marking Devices**
Heller & Sons (Engineers) Ltd.—661

● **Metal Preservatives and Rustproofings**
Berry Wiggins & Co. Ltd.—34/B
Expandite Ltd.—175/K
Philplug Ltd.—173/K
Sanderson, A., & Co. Ltd.—800
Secomastic Ltd.—174/K
Zinc Alloy Rust-Proofing Co. Ltd.—272/T
Zinc Development Association—27/B

● **Office and School Equipment and Services**
Adapta Charts Ltd.—781
Braby, F., & Co. Ltd.—155/H
Griffin & George Ltd.—629
Harvey, G. A., & Co. Ltd.—132, 133/G
Norwood Steel Equipment Co. Ltd.—748, 778a
Rotaprint Ltd.—727
Siemens Edison Swan Ltd.—25/B
Specifile Ltd.—772

● **Oil-fired Equipment**
Allied Ironfounders Ltd.—211, 212/N
Bratt Colbran Ltd.—203, 204/M
Canadian Government—648, 649
Charringtons Ltd.—862, 863
Chatwins Ltd.—215/N
Colt Ventilation Ltd.—126/G
Crane Ltd.—176, 177/K
Delmore Engineering Co. Ltd.—763

Electrix Ltd.—859
Glow-Worm Boilers Ltd.—210/N
Gold Flame Oil Burners Ltd.—724

Groveley Heating Ltd.—621
Hainault Engineering Co. Ltd.—721

Hurseal Ltd.—188, 189/L
Ideal Boilers & Radiators Ltd.—217, 218/N
Janitor Boilers Ltd.—171/K

Kunz, H. K., Ltd.—361/Y
Nu-Way Heating Plants Ltd.—759
Portway, Charles & Son Ltd.—716

Potterton, Thomas, Ltd.—213/N
Riley, A. J., & Son Ltd.—225/O
Rubery, Owen (Heating) Ltd.—720

Shell-Mex & B.P. Ltd.—740, 741

Smith & Wellstood Ltd.—184, 185/L
Tayco Boilers Ltd.—216/N
Thompson, John, Beacon Windows Ltd.—238/P
Trianco Ltd.—229, 230/P
Valor Co. Ltd.—714
Watts Automatic Boilers Ltd.—208/M

● **Paint Brushes, Rollers, Decorator's Tools and Equipment**
Briton Brush Co. Ltd.—812
Hamilton-Star Ltd.—810
Webb, Jarratt & Co. Ltd.—821

● **Paints, Varnishes, Enamels, Distempers and Stains**
Berry Wiggins & Co. Ltd.—34/B
Canadian Government—648, 649
Denton Edwards Paints Ltd.—852

Duresco Products Ltd.—822
Evoche Ltd.—744
Gay, R., & Co. Ltd.—811
Imperial Chemical Industries Ltd.—74, 75/D

Limmer & Trinidad Group of Companies—105/F
Pearl Varnish Co. Ltd.—813

Sanderson, A., & Co. Ltd.—800
Sealocrete Products—158/H
Secomastic Ltd.—174/K
Sherwoods Paints Ltd.—801

Smith & Walton Ltd.—858
Tretol Ltd.—154/H
United Paint Co. Ltd.—815

Walpamur Co. Ltd.—806, 807
Zinc Development Association—27/B

● **Paint and Rust Removers**
Polycell Products Ltd.—827, 828
Skarsten Manufacturing Co. Ltd.—820

● **Papers, Wall and Waterproof**
Canadian Government—648, 649
Finnish Foreign Trade Association—846, 847
Smith & Walton Ltd.—858
Wall Paper Manufacturers Ltd.—850, 851

● **Partitions**
Austin's of East Ham Ltd.—588
Bartrev Board Co. Ltd.—31/B
Bellrock Gypsum Industries Ltd.—165, 166/K

Braby, F., & Co. Ltd.—155/H
British Plaster Board (Manufacturing) Ltd.—83, 84/E

British Plumber Ltd.—147/H
British Werno Ltd.—613
Compactom Ltd.—121/G

Compogaze Ltd.—583
Crittall Manufacturing Co. Ltd.—88, 89/E

Formica Ltd.—589, 591
Gyproc Products Ltd.—32/B
Harvey, G. A., & Co. (London) Ltd.—132, 133/G

Holoplast Ltd.—234/P
Ideal Casements (Reading) Ltd.—701

Insulated Unit Constructions Ltd.—841a
Jablo Plastics Industries Ltd.—730

Lacoonite Ltd.—666, 668
Newsom, H., Sons & Co. Ltd.—736

Norwood Steel Equipment Co. Ltd.—748, 778a
Novobord (U.K.) Ltd.—637

Pilkingtons Tiles Ltd.—757
Stramit Boards Ltd.—197, 198/L
Williams, John, & Sons (Cardiff) Ltd.—103/F

● **Partitions, Sliding and Folding**
Avery J., (Est. 1834) Ltd.—539
Bolton Gate Co. Ltd.—66/D

Ellard Sliding Doors Ltd.—598
Esavian Ltd.—38, 39/B
Hill, Aldam, E., & Co. Ltd.—106/F

Home Fittings (Great Britain) Ltd.—656, 658
Marley Tile Co. Ltd.—149, 150/L

Williams, John, & Sons (Cardiff) Ltd.—103/F

● **Pavement, Lantern and Leaded Lights**
Gardner, G. B., & Newton Ltd.—268/S

Hope, Henry & Sons Ltd.—78, 79/D

● **Paving Stones and Slabs**
Abraham, Robert, Ltd.—275/T
Ellis, John, & Sons Ltd.—240/Q

Noelite Ltd.—157/H
Quilgotti, A., & Co. Ltd.—162/K
Redland Tiles Ltd.—90, 91/E

● **Pipes and Conduits, Gas, Water and Electricity**
Cobb, K. L., Group—516, 518
Copper Development Association—248/Q

Ductube Co. Ltd.—527, 529
Key Engineering Co. Ltd.—145, 146/H

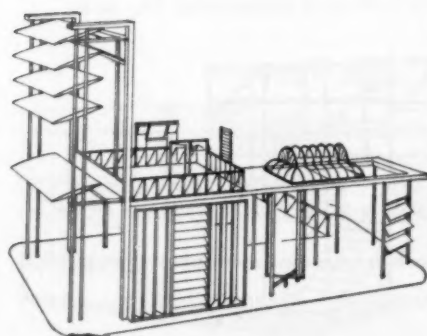
Shires & Co. (London) Ltd.—220/O
Stanton Ironworks Co. Ltd.—747

Stewarts & Lloyds Ltd.—257, 258/R
Yorkshire Imperial Metals Ltd.—113, 114/F

● **Pipes, Drain and Sewage**
Eastwoods Ltd.—143, 144/H
Econa Modern Products Ltd.—23/B

Federated Foundries Ltd.—226/O
Key Engineering Co. Ltd.—145, 146/H

Leeds Fireclay Co. Ltd.—136, 137/G
London Brick Co. Ltd.—86, 87/E
Redland Tiles Ltd.—90, 91/E



Durasteel Ltd., S 269, T 270.
Designed by Dewar Mills Associates

Henry Hope & Sons Ltd., D 78/9.
Designed by the firm's own staff



CLASSIFIED LIST

The location of stands is given at the top of each page of the Alphabetical List of Exhibitors and on the plans page 445.

Stanton Ironworks Co. Ltd.—747
Stewarts and Lloyds Ltd.—257
258/R
U.A.M. Group of Companies—782

● **Pipe Fittings**
Brown, Donald (Brownall) Ltd.—843, 844
Crane Ltd.—176, 177/K
Federated Foundries Ltd.—226/O
Ideal Boilers & Radiators Ltd.—217, 218/N
Kay & Co. (Engineers) Ltd.—758
Key Engineering Co. Ltd.—145, 146/H
Stanton Ironworks Co. Ltd.—747
Stewarts and Lloyds Ltd.—257, 258/R
Yorkshire Imperial Metals Ltd.—113, 114/F

● **Plaster, Plastering and Finishing**
Bellrock Gypsum Industries Ltd.—165, 166/K
British Plaster Board (Manufacturing) Ltd.—83, 84/E
Cafferata Ltd.—159/H
Expanded Metal Co. Ltd.—85/E
Gotham Co. Ltd.—68/D
Gyproc Products Ltd.—32/B
Imperial Chemical Industries Ltd.—74, 75/D
Jablo Plastics Industries Ltd.—730

● **Plasterboard and Walling**
Bellrock Gypsum Industries Ltd.—165, 166/K
British Plaster Board (Manufacturing) Ltd.—83, 84/E
Imperial Chemical Industries Ltd.—74, 75/D
Gotham Co. Ltd.—68/D

● **Plug and Wall Fixings**
Philplug Ltd.—541
Rawplug Co. Ltd.—191, 192/L

● **Plumbing and Plumbers' Brassfoundry**
Barking Brassware Co. Ltd.—576
Conex-Terna Ltd.—61/D
Copper Development Association—248/Q
Econa Modern Products Ltd.—23/B
Federated Foundries Ltd.—4/A
Folkard, J. S. & F., Ltd.—601
Fordham Pressings Ltd.—751
Greenwood & Hughes Ltd.—594a
Kings Langley Engineering Co. Ltd.—509, 510
Lawley, W. & J., Ltd.—662, 664
Peglers Ltd.—96/E
Rownson, Drew & Clydesdale Ltd.—676
Sanbra Ltd.—846, 847
Stewarts and Lloyds Ltd.—257, 258/R
Valor Co. Ltd.—714

● **Prefabricated Systems, Components, Cladding, Units, etc.**
Atlas Stone Co. Ltd.—24/B
British Plaster Board (Manufacturing) Ltd.—83, 84/E
Butterley Co. Ltd.—36/B
Cape Building Products Ltd.—239/P
Compactum Ltd.—121/G
Concrete Ltd.—64, 65/D
Copper Development Association—248/Q
Dexion Ltd.—737
Eastwoods Ltd.—143, 144/H
Ellis, John, & Sons Ltd.—240/Q
Finlock Gutters Ltd.—274/T
Hills, F., & Sons Ltd.—170/K
Johnson's Reinforced Concrete Engineering Co. Ltd.—44/C
Limmer & Trinidad Group of Companies—105/F
Maidenhead Brick & Tile Co. Ltd.—42/C
Marley Concrete Ltd.—8/A
Metal Sections Ltd.—127, 128/G
Newsum, H., Sons & Co. Ltd.—736
Northern Aluminium Co. Ltd.—151/H
Pilkington Bros. Ltd.—115, 116/F
Pilkingtons Tiles Ltd.—757

● **Prefabricated Systems, Factories and Warehouses**
Crendon Concrete Co. Ltd.—139/G
Ellis, John, & Sons Ltd.—240/Q
Marley Concrete Ltd.—8/A

● **Prefabricated Systems, Schools, Offices and Garages**
Austin's of East Ham Ltd.—588
Crendon Concrete Co. Ltd.—139/G
Ellis, John, & Sons Ltd.—240/Q
Marley Concrete Ltd.—8/A

● **Prestressing Equipment**
Ductube Co. Ltd.—527, 529

● **Pumps and Pumping Plant**
Allam, E. P., & Co. Ltd.—307/R
Braby, F., & Co. Ltd.—155/H
Millars Machinery Co. Ltd.—330, 331/M
Neale, Wright & Co. Ltd.—479/C

● **Putty and Mastics**
Expandite Ltd.—175/K
Secomastic Ltd.—174/K

● **Rainwater Goods**
Braby, F., & Co. Ltd.—155/H
Copper Development Association—248/Q
Dexion Ltd.—737
Eastwoods Ltd.—143, 144/H
Federated Foundries Ltd.—226/O
Finlock Gutters Ltd.—274/T
Harvey, G. A., & Co. (London) Ltd.—132, 133/G
Imperial Chemical Industries Ltd.—74, 75/D
Marley Tile Co. Ltd.—149, 150/L

Osborn, G. H., Building Products Ltd.—703a
Turners Asbestos Cement Co. Ltd.—51, 52/C
U.A.M. Group of Companies—782

● **Refiners and Distributors of Petroleum Products**
Esso Petroleum Co. Ltd.—723
Shell-Mex & B.P. Ltd.—740, 741

● **Refrigeration Equipment**
Brightside Heating & Engineering Co. Ltd.—663, 665
Carrier Engineering Co. Ltd.—738
Electrix Ltd.—859
Electrolux Ltd.—262/S
English Rose Kitchens Ltd.—249/Q
Imperial Chemical Industries Ltd.—74, 75/D

● **Reinforced and Prestressed Concrete Manufacturers**
Concrete Ltd.—64, 65/D
Johnson's Reinforced Concrete Engineering Co. Ltd.—44/C

● **Reinforcement, Fabrics, Rods, etc.**
Expanded Metal Co. Ltd.—85/E
Johnson's Reinforced Concrete Engineering Co. Ltd.—44/C
Spencer Wire Co. Ltd.—565
Truscon Ltd.—514

● **Rooflights**
B.I.P. Reinforced Products Ltd.—657
Braby, F., & Co. Ltd.—155/H
Cascelloid Ltd.—530
Cordar Ltd.—639
Corrolaze Ltd.—583
Dexion Ltd.—737
Fibreglass Ltd.—77/D
Gardner, G. B., & Newton Ltd.—268
Holoplast Ltd.—234/P
I.C.I. Ltd.—74, 75/D
Ide, T. W., Ltd.—104/K
Marketed Ltd.—769
Plyglass Ltd.—512
Quicktho Engineering Ltd.—729
Thermo-Plastics Ltd.—765
U.A.M. Group of Companies—782

● **Roofs, Aluminium**
Braby, F., & Co. Ltd.—155/H
British Aluminium Co. Ltd.—237/P
I.C.I. Ltd.—74, 75/D
Northern Aluminium Co. Ltd.—151/H
Reynolds, T. I., Aluminium Ltd.—102/F
Ruberoid Co. Ltd.—241, 242/Q

● **Roofs, Asbestos**
Durasteel Ltd.—269/S, 270/T
Eastwoods Ltd.—143, 144/H
Stramit Boards Ltd.—197, 198/L
Turners Asbestos Cement Co. Ltd.—51, 52/C
U.A.M. Group of Companies—782

● **Roofs, Copper and Zinc**
Braby, F., & Co. Ltd.—155/H
Copper Development Association—248/Q
Holloway Metal Roofs Ltd.—568
I.C.I. Ltd.—74, 75/D
Ruberoid Co. Ltd.—241, 242/Q
Zinc Development Association—27, B

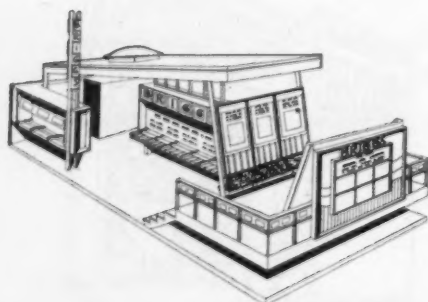
● **Roofs, Tile**
Colthurst, Symons & Co. Ltd.—123/G
Crendon Concrete Co. Ltd.—139/G
Eastwoods Ltd.—143, 144/H
Langley London Ltd.—111, 112/F
Maidenhead Brick & Tile Co. Ltd.—42/C
Marley Tile Co. Ltd.—149, 150/L
Proctor & Lavender Ltd.—546, 548
Redland Tiles Ltd.—90, 91/E

● **Roofs, Wood**
Canadian Government Stand—648, 649
Newsum, H., Sons & Co. Ltd.—736
Timber Development Association—647

● **Roofs, Other Special Materials**
Abraham, Robert, Ltd.—275/T
Anderson, D., & Son Ltd.—94, 95/E
B.I.P. Reinforced Products Ltd.—657
Bartrev Board Co. Ltd.—31/B
Briggs, William, & Sons Ltd.—45/C
Cafferata Ltd.—159/H
Cellactite Co. Ltd.—753, 754
Dowty Seals Ltd.—324/Q
Eastwoods Ltd.—143, 144/H
Finlock Gutters Ltd.—274/T
Insulated Unit Constructions Ltd.—841a
Limmer & Trinidad Group of Companies—105/F
Metal Sections Ltd.—127, 128/G
Nuralite Co. Ltd.—167, 168/K
Penfold Fencing & Engineering Co. Ltd.—28/B
Redland Tiles Ltd.—90, 91/E
Ruberoid Co. Ltd.—241, 242/Q
Weatherall Roofing Co. Ltd.—753, 754

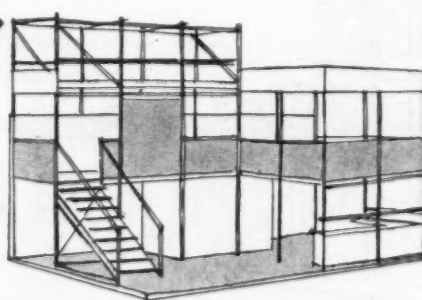
● **Sand and Aggregates**
Butterley Co. Ltd.—36/B
Dohm Ltd.—193, 194/L
Eastwoods Ltd.—143, 144/H
Elder Reed, A., & Co. (Sales) Ltd.—140/G
Stanton Ironworks Co. Ltd.—747

● **Sanitary Fittings and Appliances**
Adamsez Ltd.—110/F
Belco Manufacturing Co. (1939) Ltd.—2, 3/A
Bendz Ltd.—780
Brown, Donald, (Brownall) Ltd.—843, 844
Conex-Terna Ltd.—61/D



Boulton Scaffolding Ltd.,
L417. Designed by W. M.
Thornton

William Briggs & Sons
Ltd., C45. Designed by
Robert C. Carvell, L.R.I.B.A.





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CLASSIFIED LIST

The location of stands is given at the top of each page of the Alphabetical List of Exhibitors and on the plans page 445.

Eastwoods Ltd.—143, 144/H
Ideal Boilers & Radiators Ltd.—
217, 218/N
Leeds Fireclay Co. Ltd.—136,
137/G
Rownsdon, Drew & Clydesdale
Ltd.—676
Shanks & Co. Ltd.—160/H
Shires & Co. (London) Ltd.—
220/O
Thermo-Plastics Ltd.—765

● **Saws, Power and Hand**
British Equipment Co. Ltd.—
323/O
Cooksley, A., & Co. Ltd.—
362/Y
Dominion Machinery Co. Ltd.—
385/V
J. K. O. Cutters Ltd.—371/X
Kennedy, W., Ltd.—456/E
Kine Engineering Co. Ltd.—
393/U
Liner Concrete Machinery Co.
Ltd.—348, 349/X
Monninger, C. D., Ltd.—368/Y
Pickles, John, & Son (Engineers)
Ltd.—377/W
Robinson, Thomas, & Son Ltd.—
378/W
Simms, C. A. (Engineers) Ltd.—
337, 338/M
Stenners of Tiverton—387/V
Teles Smith Ltd.—366/Y
Wilmer Lea (Machine Tools)
Ltd.—376/W

● **Scaffolding Appliances**
Boulton Scaffolding Ltd.—417/L
British Building & Engineering
Appliances Ltd.—444/G
Drew, Clark & Co. Ltd.—401/L
Imperial Chemical Industries
Ltd.—74, 75/D
Kwikform Ltd.—439/G
Mills Scaffold Co. Ltd.—438/G
Palmer Travelling Cradle &
Scaffold Co. Ltd.—434,
435/H
Rapid Metal Developments Ltd.—
421, 422/H
Scaffolding (Great Britain) Ltd.
104/F
Steel Scaffolding Co. Ltd.—62,
63/D
Sterling-Safway—467/D
Stewarts and Lloyds Ltd.—257,
258/R
Youngman, W. C., Ltd.—472,
473/C

● **Sewage Treatment and Lifting
Equipment**
Tuke & Bell Ltd.—265/T

● **Stairs and Stairtreads**
Adamite Co. Ltd.—677
Barnes & Fletcher Ltd.—845
Braby, F., & Co. Ltd.—155/H
British Technical Cork Products
Ltd.—725
Ferodo Ltd.—48/C
Gardiner Sons & Co. Ltd.—
118/F

Granwood Flooring Co. Ltd.—
643
Imperial Chemical Industries
Ltd.—74, 75/D
Langley London Ltd.—111,
112/F
Marley Tile Co. Ltd.—149,
150/L
Pilkington Bros Ltd.—115, 116/F
● **Stone Reconstructed and
Cleaning**
Atlas Stone Co. Ltd.—24/B
Ellis, John, & Sons Ltd.—240/Q
Selleck, Nicholls & Co. Ltd.—
535

● **Stonemason's Tools**
Impregnated Diamond Products
Ltd.—331/Q
Perkins, John M., & Smith Ltd.—
357/Z

● **Structural Steelwork**
Braby, F., & Co. Ltd.—155/H
Brockhouse Steel Structures Ltd.—
254, 255/R
Dexion Ltd.—737
Kwikform Ltd.—439/G
Metal Sections Ltd.—127, 128/G
Rapid Metal Developments Ltd.—
421, 422/H
Scaffolding (Great Britain) Ltd.—
104/F
Steel Scaffolding Co. Ltd.—
62, 63/D
Stewarts and Lloyds Ltd.—257,
258/R

● **Switchgear and Switches**
Falk, Stadelmann Ltd.—775,
776, 777
Imperial Chemical Industries
Ltd.—74, 75/D

● **Tanks, Cisterns and Cylinders**
Braby, F., & Co. Ltd.—155/H
Cobb, K. L., Group—516, 518
Fordham Pressings Ltd.—751
Harvey, G. A., & Co. (London)
Ltd.—132, 133/G
Ideal Boilers & Radiators Ltd.—
217, 218/N
Imperial Chemical Industries
Ltd.—74, 75/D
Lawley, W. & J., Ltd.—662, 664
Marketad Ltd.—769
Shires & Co. (London) Ltd.—
220/O
Turners Asbestos Cement Co.
Ltd.—51, 52/C

● **Tarpaulins**
British Visqueen Ltd.—573
British Xylonite Group of
Companies—530

● **Technical Press**
ARCHITECT & BUILDING
NEWS—141/G
Architectural Press Ltd.—267/S
Benn Bros. Ltd.—17/A
Builder Ltd.—59/C
Building Materials—669
Building Press Ltd.—575
Contract Journal Co. Ltd.—585

Federated Employers Press Ltd.—
4/A
Floors—669
Illustrated Carpenter & Builder
—276, 278/T
Interbuild—700
New Era Publishing Co. Ltd.—
19/A
Official Architecture & Plan-
ning—517
Trade Chronicles Ltd.—396/U
Woodworking Industry—396/U

● **Tiles, Acoustic**
Armstrong Cork Co. Ltd.—92,
93/E
Avery, J., & Co. (Est. 1834) Ltd.—
539
Burgess Products Co. Ltd.—617
Canadian Government—648, 649
Cape Building Products Ltd.—
239/P

Celotex Ltd.—53, 54/C
Compactom Ltd.—121/G
Expanded Metal Co. Ltd.—85/E
Fibreglass Ltd.—77/D
Gyproc Products Ltd.—32/B
Hermesal Ltd.—35/B
Hursel Ltd.—188, 189/L
Kenyon, Wm., & Sons (Meta-
mica) Ltd.—22/B
Marley Tile Co. Ltd.—149,
150/L
Morrison, R. F., & Co. Ltd.—
841
Thermo Acoustic Products Ltd.—
543

● **Tiles, Decorative**
Bell, A., & Co. Ltd.—26/B
British Plaster Board
(Manufacturing) Ltd.—83,
84/E
Candy & Co. Ltd.—119/F
Carter & Co. (London) Ltd.—
73/D

Celotex Ltd.—53, 54/C
Leeds Fireclay Co. Ltd.—136,
137/G
Maidenhead Brick & Tile Co.
Ltd.—42/C
Packard & Ord Ltd.—130/G
Pilkingtons Tiles Ltd.—757
Plysu Sales Ltd.—508
Sussex & Dorking United Brick
Co. Ltd.—117/F

● **Tools Demolition**
British Equipment Co. Ltd.—
323/O
Contractors & Industrial Equip-
ment Ltd.—419, 420/L
Hymatic Engineering Co. Ltd.—
761, 762
Neale, Wright & Co. Ltd.—
479/C

● **Tools, Hand**
Canadian Government—648, 649
Lawler, Ayers & Co. Ltd.—
322/O
Monninger, C. D., Ltd.—368/Y
Shetack Tool Works Ltd.—
261/5
Skarsten Manufacturing Co.
Ltd.—820

● **Tools, Power**
Allam, E. P., & Co. Ltd.—307/R
Bridges, S. N., & Co. Ltd.—
301, 302/S
British Equipment Co. Ltd.—
323/O
Centec Machine Tools Ltd.—
360/Y
Contractors & Industrial
Equipment Ltd.—419, 420/L
Hymatic Engineering Co. Ltd.—
761, 762
J. K. O. Cutters Ltd.—371/X
Kennedy, W., Ltd.—456/E
Rawplug Co. Ltd.—191, 192/L
Trend Industrial Equipment Ltd.—
321/P
Wolf Electric Tools Ltd.—305,
306/T

● **Tractors and Road Rollers**
Aveling-Barford Ltd.—329/O
Ford Motor Co. Ltd.—404, 405,
406/L
Neale, Wright & Co. Ltd.—
479/C
Rolba Co. Ltd.—482/B
Saunders, H. A., Ltd.—402,
403/L
Stothert & Pitt Ltd.—310/R

● **Trucks, Trolleys and Trailers**
Slingsby, H. C., Ltd.—461/E
Warry Engineering Co. Ltd.—
484, 485

● **Tubes**
Imperial Chemical Industries
Ltd.—74, 75/D
Kaye, E. E., Ltd.—667
Stewarts and Lloyds Ltd.—257,
258/R
Yorkshire Imperial Metals Ltd.—
113, 114/F

● **Tubing Polythene**
Dohm Ltd.—193, 194/L
Folkard, J. S., & F., Ltd.—601
Imperial Chemical Industries
Ltd.—74, 75/D
Marley Tile Co. Ltd.—149, 150/L
Stewarts and Lloyds Ltd.—257,
258/R
Yorkshire Imperial Metals Ltd.—
113, 114/F

● **Valves**
Barking Brassware Co. Ltd.—
576
Barwell, James, Ltd.—16/A
Belco Manufacturing Co. (1939)
Ltd.—2, 3/A
Conex-Terna Ltd.—61/D
Crane Ltd.—176, 177/K
Dowty Seals Ltd.—324/Q
Folkard, J. S. & F., Ltd.—601
Ideal Boilers & Radiators Ltd.—
217, 218/N
Kings Langley Engineering Co.
Ltd.—509, 510
Peglers Ltd.—96/E
Sanbra Ltd.—61/D
Walker, Crossweller & Co. Ltd.—
706
Yorkshire Imperial Metals Ltd.—
113, 114/F

John Williams & Sons (Cardiff) Ltd.,
F 103. Designed by Philip H.
Lawrence, A.R.I.B.A.

John Thompson, Beacon Windows
Ltd., P 238. Designed by John
Thompson Publicity Department,
Wolverhampton



CLASSIFIED LIST

The location of stands is given at the top of each page of the Alphabetical List of Exhibitors and on the plans page 445.

● **Venetian Blinds and Jalousies**
Avery, J., & Co. (Est. 1834)
Ltd.—539
Crittall Manufacturing Co. Ltd.
—88, 89/E
Home Fittings (Great Britain)
Ltd.—656, 658
Scandinavian Furnishings—835
Tomo Trading Co. Ltd.—195/L
Venetian Vogue Ltd.—243/Q

● **Ventilators, Air Conditioning and Space Heating Equipment**

Brightside Heating & Engineering Co. Ltd.—663, 665
Canadian Government—648, 649
Cannon (GA) Ltd.—760
Carrier Engineering Co. Ltd.—738
Cellacite Co. Ltd.—753, 754
Chatwins Ltd.—215/N
Cole, E. K., Ltd.—5, 6/A
Colt Ventilation Ltd.—126/G
Contractors & Industrial Equipment Ltd.—419, 420/L
Copperad Ltd.—252, 253/R
Crane Ltd.—176, 177/K
Delmore Engineering Co. Ltd.—763
Dimplex Ltd.—223/O
Ductube Co. Ltd.—527, 529
Electrical Development Association—97, 98/B
Electrix Ltd.—859
Falk, Stadelmann Ltd.—775, 776, 777
Federated Foundries Ltd.—226/O
Fenton Byrn & Co. Ltd.—719
Gardner, G. B., & Newton Ltd.—268/S
Gas Council—244, 245/Q
Greenwoods & Airvac Ventilating Co. Ltd.—122/G
Harford Pumps Ltd.—209/M
Harvey, G. A., & Co. (London) Ltd.—132, 133/G
Hattersley Bros Ltd.—232/P
Hurseal Ltd.—188, 189/L
Ideal Boilers & Radiators Ltd.—217, 218/N
Inferation Ltd.—655
Kunz, H. K., Ltd.—361/Y
Nu-Way Heating Plants Ltd.—759
O.H. Ltd.—778
Omnia Constructions Ltd.—187/L
Potterton, Thomas, Ltd.—213/N
Riley, A. J., & Son Ltd.—255/O
Rubery, Owen (Heating) Ltd.—726
Smith & Wellstood Ltd.—184, 185/L
Steel Radiators Ltd.—231/P
Stewarts and Lloyds Ltd.—257, 258/R
Thompson, John, Beacon Windows Ltd.—238/P
True Flue Ltd.—12, 13/A

Valor Co. Ltd.—714
Watts Automatic Boilers—208/M
Winheld Smith Engineering Supplies Ltd.—683
Woods of Colchester Ltd.—861
Yorkshire Imperial Metals Ltd.—113, 114/F

● **Vermiculite**
Dohm Ltd.—193, 194/L
Kenyon, Wm., & Sons (Meta Mica) Ltd.—22/B

● **Wallboards**

African Building Board Corporation Ltd.—645
Aircrow Co. & Jicwood Ltd.—572, 573, 574
Bartrev Board Co. Ltd.—31/B
Bellrock Gypsum Industries Ltd.—165, 166/K
British Plaster Board (Manufacturing) Ltd.—83, 84/E
British Plumber Ltd.—147/H
Bryce, White & Co. Ltd.—81/E
Cascelloid Ltd.—530
Celotex Ltd.—53, 54/C
Finnish Foreign Trade Association—846, 847
Glikssten, J., & Son Ltd.—125/G
Gyproc Products Ltd.—32/B
Leboff, S., Ltd.—641a
North British Plastics Ltd.—670
Novobord (U.K.) Ltd.—637
Simson, Thomas, & Co. Ltd.—645

● **Wall Coverings**

Armstrong Cork Co. Ltd.—92, 93/E
Barnes & Fletcher Ltd.—845
Barwin, P., & Co. Ltd.—521
British Technical Cork Products Ltd.—725
Canadian Government—648, 649
Candy & Co. Ltd.—119/F
Derimide Ltd.—766, 767
Elder Reed, A., & Co. (Sales) Ltd.—140/G
Formica Ltd.—589, 591
Imperial Chemical Industries Ltd.—74, 75/D
Lacoste Ltd.—666, 668
Langley London Ltd.—111, 112/F
Leboff, S., Ltd.—641a
Marketad Ltd.—769
Marley Tile Co. Ltd.—149, 150/L
Meyer, Montague L., Ltd.—263/S, 525
Northern Aluminium Co. Ltd.—151/H
Pilkington Bros. Ltd.—115, 116/F
Pilkingtons Tiles Ltd.—757
Plyglass Ltd.—512
Plyu Sales Ltd.—508
Price, D. W., & Son Ltd.—196/L
Ruberoid Co. Ltd.—241, 242/Q

Semtex Ltd.—71, 72/D
Smith & Walton Ltd.—858
Stramit Boards Ltd.—197, 198/L
Thermo Plastics Ltd.—765
Turners Asbestos Cement Co. Ltd.—51, 52/C
United Paint Co. Ltd.—815
Williams, Dennis M., Ltd.—30/B

● **Water Heaters, Radiators, etc.**

Ascot Gas Water Heaters Ltd.—235/P
Bratt Colbran Ltd.—203, 204/M
Brightside Heating & Engineering Co. Ltd.—663, 665
Chatwins Ltd.—215/N
Cole, E. K., Ltd.—5, 6/A
Copperad Ltd.—252, 253/R
Crane Ltd.—176, 177/K
Dimplex Ltd.—223/O
Econa Modern Products Ltd.—23/B
Electrical Development Association—97, 98/B
Falk, Stadelmann Ltd.—775, 777
Gas Council—244, 245/Q
Glow-Worm Boilers Ltd.—210/N
Hattersley Bros. Ltd.—232/P
Hurseal Ltd.—188, 189/L
Ideal Boilers & Radiators Ltd.—217, 218/N
Imperial Chemical Industries Ltd.—74, 75/D
Nu-Way Heating Plants Ltd.—759
Peglers Ltd.—96/E
Potterton, Thomas, Ltd.—213/N
Riley, A. J., & Son Ltd.—225/O
Scandinavian Furnishings—835
Smith & Wellstood Ltd.—184, 185/L
Steel Radiators Ltd.—231/P
Valor Co. Ltd.—714
Watts Automatic Boilers—208/M

● **Water Softeners and Sterilizers**

Bell, A., & Co. Ltd.—26/B

● **Windows, Metal**

Braby, F., & Co. Ltd.—155/H
Cobb, K. L., Group—516, 518
Crittall Manufacturing Co. Ltd.—88, 89/E
Hope, Henry, & Sons Ltd.—78, 79/D
Ideal Casements (Reading) Ltd.—701
Imperial Chemical Industries Ltd.—74, 75/D
Johnson, G., Bros. Ltd.—101/F
Northern Aluminium Co. Ltd.—151/H
Quicktho Engineering Ltd.—729
Thompson, John, Beacon Windows Ltd.—238/P
Williams, John, & Sons (Cardiff) Ltd.—103/F

● **Windows, Plastics**

Austin's of East Ham Ltd.—588
Crittall Manufacturing Co. Ltd.—88, 89/E
Holcon Ltd.—46/C
Ideal Casements (Reading) Ltd.—701
Imperial Chemical Industries Ltd.—74, 75/D
Osborn, G. H., Building Products Ltd.—703a
Thompson, John, Beacon Windows Ltd.—238/P

● **Windows, Wood**

Austin's of East Ham Ltd.—588
Boulton & Paul Ltd.—246, 247/Q
Canadian Government—648, 649
Holcon Ltd.—46/C
James, H. C., Ltd.—57/C
Jayanbee Joinery Ltd.—534, 536
Sadd, John, & Sons Ltd.—43/C
Tomo Trading Co. Ltd.—195/L

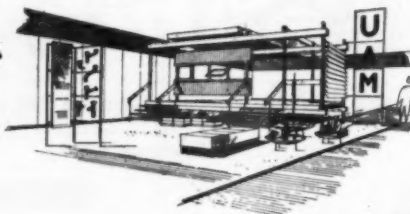
● **Wire Products and Nails, etc.**

Arkinstall Bros. (Bromsgrove) Ltd.—838
Braby, F., & Co. Ltd.—155/H
Harvey, G. A., & Co. (London) Ltd.—132, 133/G
Imperial Chemical Industries Ltd.—74, 75/D
Spencer Wire Co. Ltd.—565

● **Woodworking Machinery**

Bridges, S. N., & Co. Ltd.—301, 302/S
British Equipment Co. Ltd.—323/O
Brookman, R. S., Ltd.—374/X
Centec Machine Tools Ltd.—360/Y
Cooksley, A., & Co. Ltd.—362/Y
Coronet Factoring Co. (Derby) Ltd.—654
Danckaerts Woodworking Machinery Ltd.—372/X
Dominion Machinery Co. Ltd.—385/V
J.K.O. Cutters Ltd.—371/X
Kine Engineering Co. Ltd.—393/U
Kunz, H. K., Ltd.—361/Y
Monninger, C. D., Ltd.—368/Y
Pickles, John, & Son (Engineers) Ltd.—377/W
Robinson, Thomas, & Son Ltd.—378/W
Simms, C. A., (Engineers) Ltd.—337, 338/M
Stenners of Tiverton Ltd.—387/V
Trend Industrial Equipment Ltd.—321/P
Whitehill Spindle Tools Ltd.—397/U
Wilmer Lea (Machine Tools) Ltd.—376/W

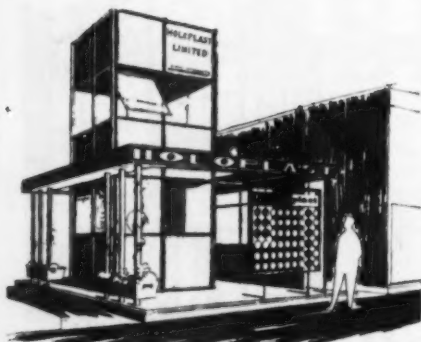
U.A.M. Group, 782. Designed by Edward D. Mills, the Group's consultant architect



Copperad Ltd., R 252/3
Designed by Artique Studios Ltd.



Holoplast Ltd., P 234. Designed by Reed Paper Group's Architects' Dept.





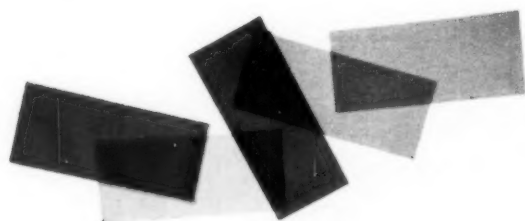
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UNILUX—the perfect machine produced

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The entire process of using laminated plastics can now be
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beautyboard*



Essentially, FORMICA Beautyboard is a conventional FORMICA laminate, ready-veneered to a unique combination of special lightweight woods and backed with a laminate which needs no further finishing. It therefore offers a complete and ideal method of wall cladding — particularly for 'wet applications' or for applications where extremes of humidity exist: for example, centrally heated buildings.

No uneven laminations This is because FORMICA Beautyboard's unique properties remove for you the risk of Warping and Telegraphing.

The surfacing and the surface. Since FORMICA Beautyboard combines the decorative surfaces, the core and the balancing veneer it will simplify considerably many familiar applications. Wall cladding and partitioning with FORMICA decorative laminates are merely two examples.



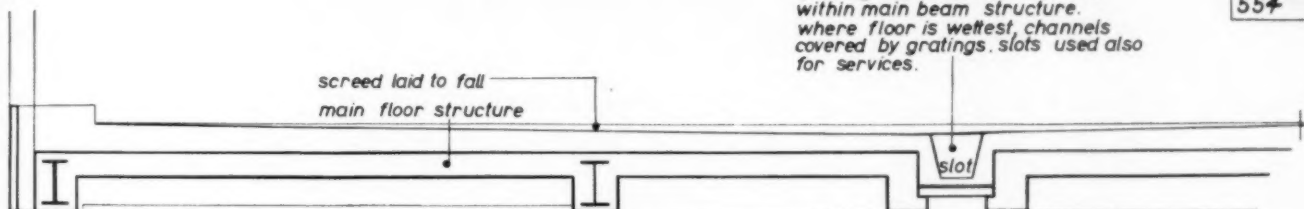
3/8" thick and available in the complete range, matt finish.



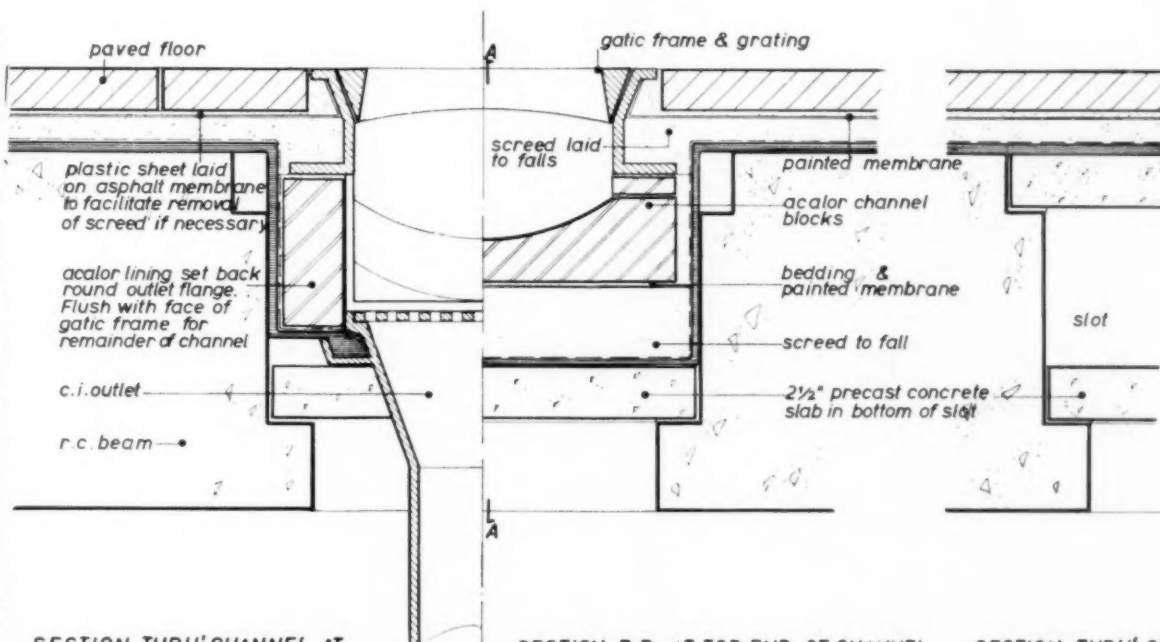
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For the complete details, write to — FORMICA Ltd. (Beautyboard enquiries) De La Rue House, 84-86 Regent St., London W.1. *FORMICA is a regd. trade mark

drainage slots at first floor level within main beam structure. where floor is wettest, channels covered by gratings. slots used also for services.



SECTION THRU' 1ST FLOOR 1/4"-1' 0"

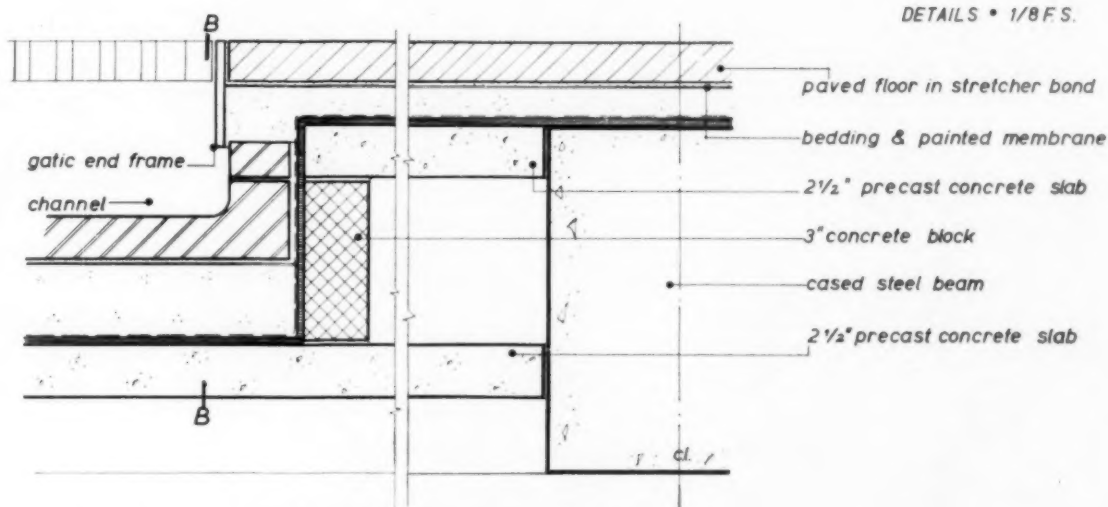


SECTION THRU' CHANNEL AT OUTLET

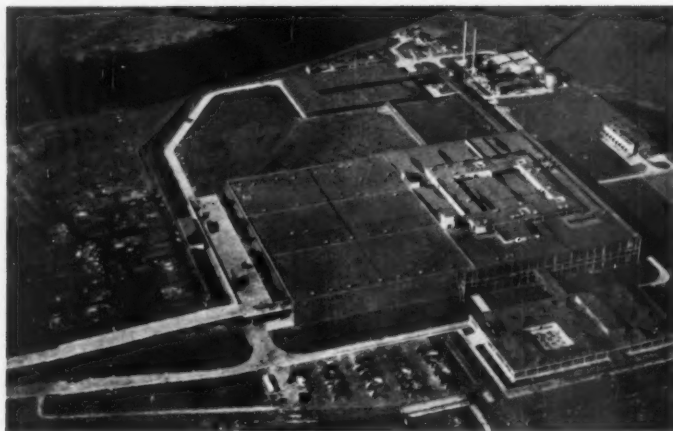
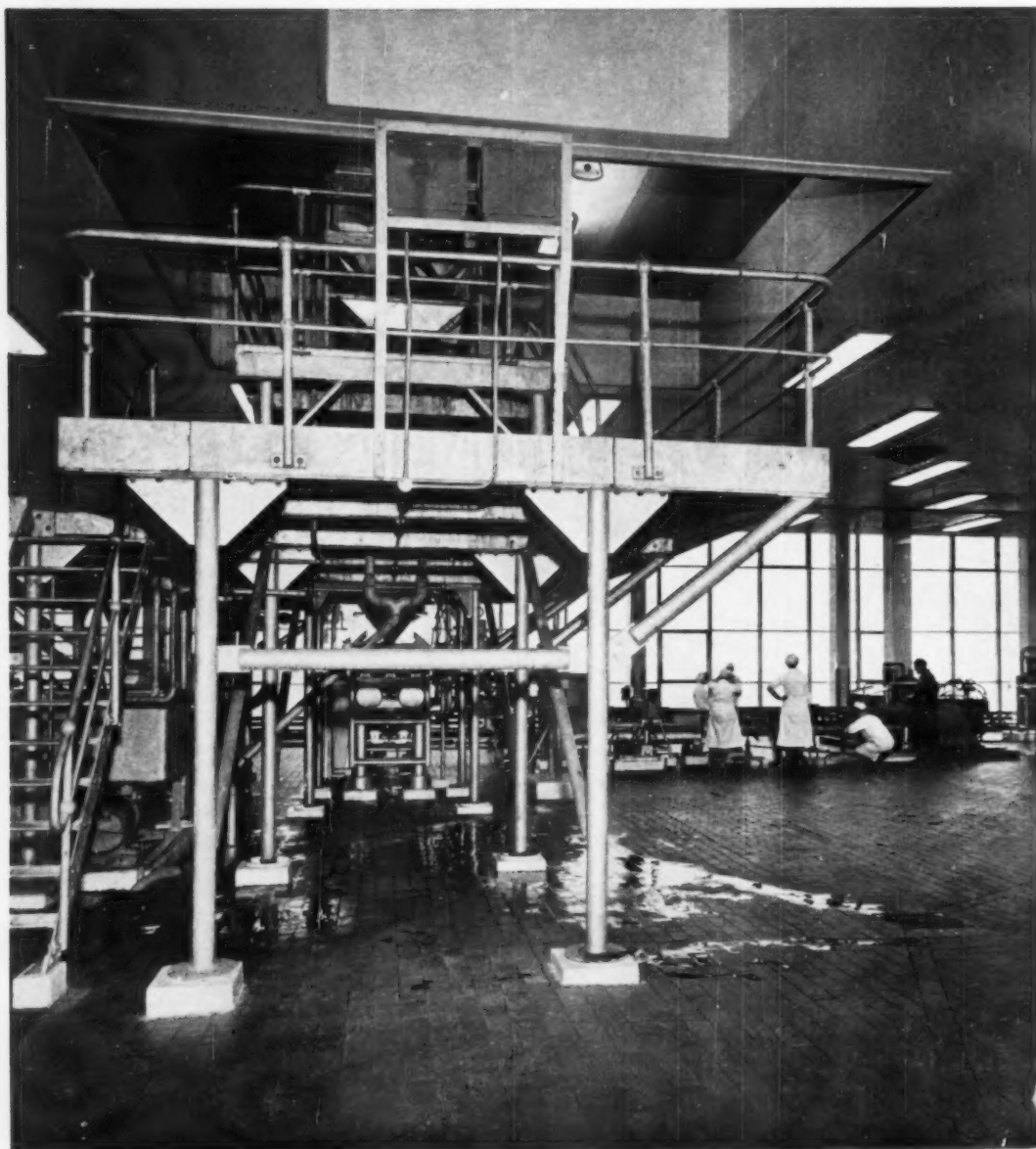
SECTION B-B AT TOP END OF CHANNEL

SECTION THRU' CHANNEL WITH FLOOR CARRIED OVER

DETAILS • 1/8 F.S.



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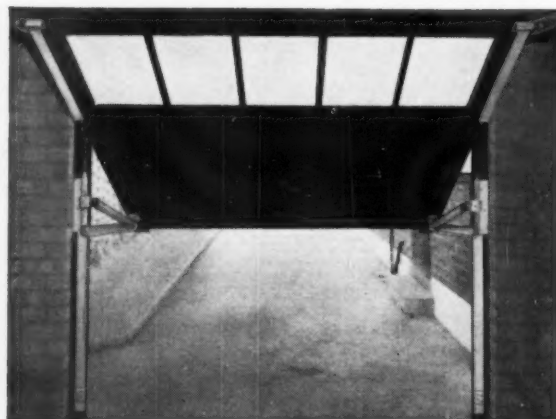
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*T. F. Higson, A.R.I.B.A.
(West Midlands
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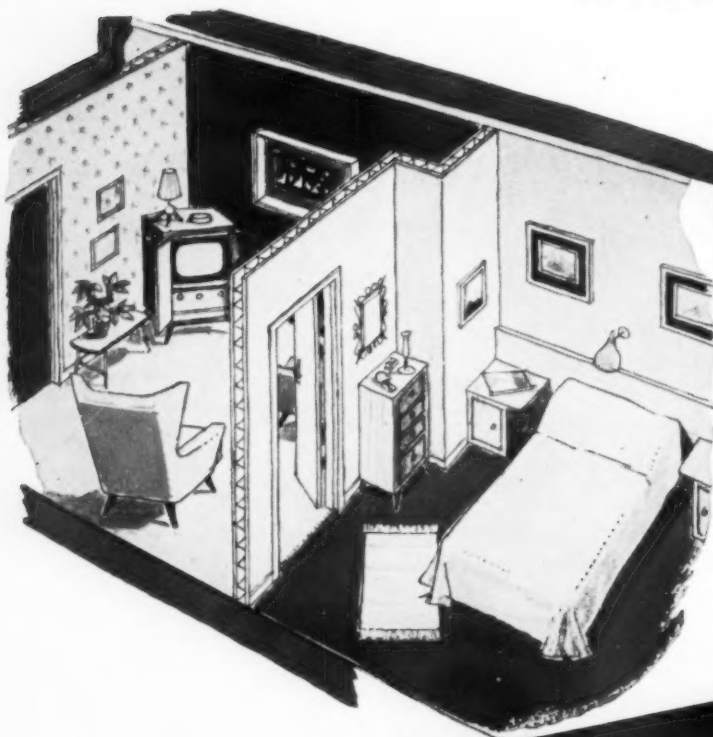
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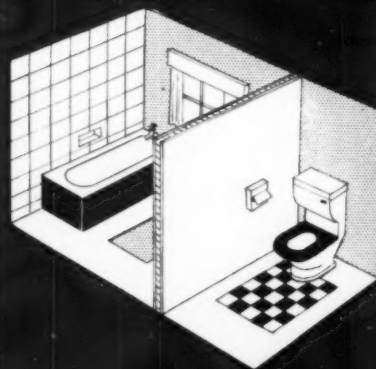
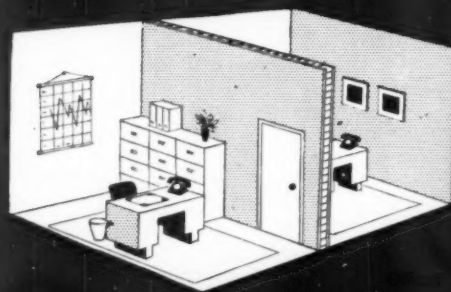
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Notes below give basic data of contracts open under locality and authority which are in a bold type. References indicate: (a) type of work (b) address for application. Where no town is stated in the

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OPEN

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BANBURY B.C. (a) Erection of 33 houses in six blocks at Lincoln Hill on Nethrop III site, Lanbury. (b) Borough Engineer and Surveyor, Municipal Buildings, Marlborough Road. (c) 2gn. (e) December 4.

BANBURY B.C. (a) Erection of 12 one-bedroom bungalows off Penrose Drive, Nethrop III site. (b) Borough Engineer and Surveyor, Municipal Offices. (c) 2gn. (e) November 30.

BASILDON U.C. (a) Erection of 70 three-bedroom houses in terraces at Winifred Road site, Pitsea. (b) Engineer and Surveyor, 108 High Street, Billericay, Essex. (c) 2gn. (d) November 13.

BEDLINGTONSHIRE C.C. (a) Design, supply and erection of 19 shop fronts for 19 shops at Guide Post Clearing Area. (b) Engineer and Surveyor, Council Offices, Bedlington. (e) November 24.

BELFAST. (a) Erection of headquarters for Inspector General of R.U.C., at Brooklyn, Knock, for the Ministry of Finance. (b) Room 103, Law Courts Building, Belfast. (c) £5. (e) December 8.

BILLINGE AND WINSTANLEY U.C. (a) Construction of 40 two-storey dwellings, and approximately 650ft of new road, footpaths and sewers on Beacon Road site. (b) Architect, Council Offices, Main Street, Billinge. (c) 3gn. (e) December 12.

BURY B.C. (a) (1) Main contract. (2) Reinforced concrete specialist for construction of a 540-pupil county secondary school at Seedfield. A list of selected contractors will be prepared. (b) Borough Engineer, Town Hall, stating whether for main contract or reinforced concrete specialist. (d) November 16.

CAERNARVONSHIRE C.C. (a) Erection of four-classroom extension at Mostyn Secondary School, Llandudno. (b) County Architect, County Offices, Caernarvon. (c) 2gn. (e) November 23.

CANNOCK R.C. (a) Erection of traditional type dwellings as follows: (1) 44 dwellings and eight garages at School Lane, Coren; (2) Two houses, 14 garages at Great Wryley. Tenders for each will be considered independently. (b) In writing to Clerk of the Council, Council Offices, Penkridge, Stafford. (c) 2gn. (e) November 21.

COVENTRY C.C. (a) Next phase of building, approximately 100,000 sq ft in area, of the Training College. (b) Names to W. S. Hattrell & Partners, architects, 1 Queen's Road, Coventry. (c) November 18.

CROOK AND WILLINGTON U.C. (a) Erection of 50 houses at Watergate. (b) F. J. Pearson, Clerk of the Council, Council Offices, Glenholme, Crook, Co. Durham. (c) 2gn. (d) November 16.

address it is the same as the locality given in the heading (c) deposit (d) last date of application (e) last date and time for submission of tenders. Full details of contracts marked * are given in the advertisement section.



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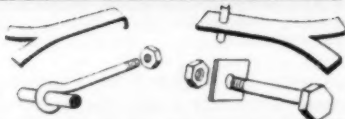
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CROYDON B.C. (a) Erection of four bungalows, 18 flats, in one three-storey block and 32 flats in one eight-storey block at Mayday Road. (b) Borough Engineer, Town Hall. (c) December 15.

CROYDON B.C. (a) Nine houses and 32 maisonnettes in three four-storey blocks in Regina Road. (b) Borough Engineer, Town Hall. (c) December 15.

CROYDON B.C. (a) Redevelopment of Wingate Crascat temporary housing site for erection of two bungalows, 46 houses and 64 flats in two eight-storey blocks and 35 garages. (b) Names to Borough Engineer, Town Hall. (c) December 15.

DAGENHAM B.C. (a) Erection of 110 bungalows, 42 semi-bungalows, 24 houses, 12 old people's bungalows, two flats, four shops and 47 garages at Canvey Island, contract 4. (b) Borough Engineer and Surveyor, Civic Centre. (c) 2gn. (e) November 27.

EAST RETFORD B.C. (a) Conversion of West Retford Hall into ten flats. (b) Borough Surveyor, Municipal Offices. (c) 2gn. (e) November 23.

EIRE. CO. MAYO V.E.C. (a) Erection of a new vocational school at Claremorris for Co. Mayo Vocational Education Committee. (b) Documents from Desmond MacGreevy, 4 Merrion Square, Dublin, on the production of an official receipt, which may be obtained on application from Paraic O'Lochlainn C.E.O., On Ghairm Scoil, Caislean A'Bharraigh, Co. Mhuigheo, for a deposit of £25. (c) December 7.

EIRE. CORK CORPORATION. (a) Erection at Grattan Street Housing Scheme No. 2. Four dwellings and one shop for Cork Corporation. (b) Walter McEvilly, Bairisteoir Na Cathrach agas an Baile—Chleireach, Halla na Cathrach Chorai. (c) 10gn. (e) November 24.

EIRE. DUBLIN C.C. (a) Erection of a new public library at Walkinstown for Dublin County Council. (b) 6 Parnell Square, Dublin (Room 20). (c) 5gn. (e) November 24.

EIRE. DUBLIN CORPORATION. (a) Erection of two four-storey blocks and four five-storey blocks at Mercer Street housing area, Section No. 3, containing 26 maisonnettes and 78 flats for Dublin Corporation. (b) City Treasurer, Exchange Buildings, Lord Edward Street, Dublin. (c) 15gn. (e) December 1.

EIRE. LONGFORD C.C. (a) Construction of a skew road bridge over the main Dublin-Sligo line on road T3, at Lamagh, near Newtownforbes, Co. Longford, for Longford County Council. The bridge has a 20ft carriageway, two 6ft footpaths, and a reinforced concrete parapet wall each side. The skew span is about 34ft. The abutments are gravity type mass concrete and the bridge deck consists of pre-cast, prestressed concrete inverted T beams, laid between the abutments. The pre-cast beams will be supplied by a specialist sub-contractor. (b) Mr. W. J. L. O'Connell, 9 South Mall, Cork. (c) £25. (e) December 16.

GUILDFORD B.C. (a) Erection of a public mortuary and post mortem building at Woodbridge. (b) Borough Engineer and Surveyor, Municipal Offices, High Street. (c) December 2.

LEEDS REGIONAL HOSPITAL BOARD. (a) Improvements to main kitchen and occupational therapy workshop at Menston Hospital, near Ilkley. (b) Architect to the Board, Park Parade, Harrogate. (c) 2gn, cheques payable to "Leeds Regional Hospital Board". (d) November 18.

LINCOLN C.C. (a) Erection of old people's homes at Grantham. (b) County Architect, Council Offices, Sleaford. (c) November 12. (e) December 15.

NORTHERN IRELAND H.T. (a) Construction of 67 dwellings and 16 garages together with ancillary and engineering works at Galgorm (Ballymena), for Northern Ireland Housing Trust. (b) Northern Ireland Housing Trust, 12 Hope Street, Belfast 12. (c) £3. (e) November 24.

NORTH-WEST METROPOLITAN REGIONAL HOSPITAL BOARD. (a) Erection of a residential block at Welwyn-Hatfield new hospital, Howlands, Hatfield Hyde, Herts. Estimated cost £200,000. (b) Regional Architect, N.W. Metropolitan Regional Hospital Board, 40 Eastbourne Terrace, London, W.2. (d) November 23. Work to begin in April, 1960.

ORRELL U.C. (a) Erection of 12 bungalows, Station Avenue. (b) Engineer and Surveyor, Council Office, Orrell Road, Wigan. (c) December 12.

PORT TALBOT B.C. (a) Erection of 42 maisonnettes in seven blocks of six dwellings at "Harry" site, Sandfields, Aberavon. (b) Mr. G. V. Griffiths, Borough Engineer, Municipal Buildings. (c) 2gn. (e) November 23.

READING B.C. (a) Erection of five three-bedroom houses in Vale Crescent, Vale Estate. (b) Borough Architect, Town Hall. (c) 2gn. (e) November 23.

READING B.C. (a) Erection of 34 dwellings, comprising 18 houses and 16 flatlets, with eight garages, in Bickingham Drive, Emmer Green estate. (c) 2gn. (e) November 23.

RUISLIP—NORTHWOOD U.C. (a) Redevelopment of temporary housing site at Eastcote, comprising 72 flats in 12 blocks. (b) Engineer and Surveyor, Council Offices, Northwood, giving names of three references (authorities). (d) November 17. (e) December 28.

STAINES U.C. (a) Erection of old people's welfare development, comprising 41 flats, 11 bungalows, eight bed-sitting rooms, communal hall, offices and warden's flat, at Kingston Crescent, Ashford. (b) Clerk to the Council, "Elmsleigh", 73 High Street, Staines. (c) 2gn. (e) November 25.

STEVENAGE U.C. (a) Construction and fitting out a refreshment kiosk and bowls-tennis pavilion at Shepholbury Park, both of timber-framed construction, including mains and foundations.

One contract. (b) Engineer and Surveyor, 19 Orchard Road, Stevenage, Herts. (c) 2gn, cheque made payable "Stevenage Urban District Council". (e) November 30.

STOCKPORT B.C. (a) Erection of two separate sanitary blocks at Belmont Secondary Modern School, including extensions to main electricity and heating installations. (b) Borough Architect, Town Hall. (c) November 24.

SUNDERLAND B.C. (a) Erection of first phase of Seaburn comprehensive school, comprising an assembly hall, three-storey house block, four-storey science block, gymnasium, swimming bath and heating chamber, with caretaker's house and external works. (b) Borough Architect, Grange House, Stockton Road. (c) 2gn. (e) November 27.

TEIGNMOUTH U.C. (a) Construction of sea front shelter and bandstand at The Den. (b) Surveyor, Council Offices, Bitton House, Teignmouth. (c) November 19.

UNITED NEWCASTLE UPON TYNE HOSPITALS. (a) Erection of a main boiler house (approximately 224,000 cu ft) a coal yard and ancillary buildings, at Royal Victoria Infirmary. Work to begin mid-December. (b) Secretary to the Board of Governors, Royal Victoria Infirmary, Newcastle upon Tyne, 1. (d) November 14.

PLACED

Notes on contracts placed state locality and authority in bold type with (1) type of work (2) site, (3) name of contractor and address, (4) amount of tender or estimate. † denotes that work may not start pending final acceptance, or obtaining of licence, or modification of tenders, etc.

ACTON B.C. (1) Block of 46 flats and maisonnettes. (2) Hanbury Road. (3) W. J. Marston & Son Ltd., 1 Stephendale Road, Fulham, S.W.6. (4) £115,681.

BATTERSEA B.C. (1) 96 dwellings. (2) Austin Road. (3) M. J. Gleeson (Contractors) Ltd., London Road, Cheam, Surrey. (4) £232,718.

BLACKPOOL B.C. (1) Erection of St. Catherine's R.C. School. (2) William Eaves & Co. Ltd., Marton, South Shore, Blackpool. (4) £106,979.

BRADFORD C.C. (1) 118 dwellings and 201 dwellings. (2) Hillside and Manchester Road estates. (3) Geo. Wimpey & Co. Ltd., Hammersmith, London, W.6. (4) £249,000 and £457,800.

CAMBRIDGE. (1) Erection of a new West's House. (2) Leys School. (3) Coulson & Son Ltd., Cambridge.

CARDIFF C.C. (1) Erection of 48 flats. (2) Llanrumney estate. (3) J. North & Sons Ltd., Rumney, Cardiff. (4) £97,018.

CHELtenham B.C. (1) Erection of council chamber and conversion works. (2) 53-55 Promenade. (3) Wm. Moss & Sons Ltd., North Circular Road, London, N.W.2. (4) £53,570.

DEVON C.C. (1) Next stage of work on new county hall. (2) Exeter. (3) Staverton Builders Ltd., Totnes, Devon. (4) £785,500.

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HULL C.C. (1) 210 dwellings. (2) Boothferry Road. (3) Spooners (Hull) Ltd., Stoneferry, Hull. (1) 132 dwellings. (2) Wymersley and Dayton roads. (3) Stepney Contractors Ltd., Grovehill, Beverley, Yorks.

KENT C.C. (1) Erection of a suppliers depot. (2) Maidstone. (3) G. E. Wallis & Sons Ltd., Maidstone, and 231 Strand, London, W.C.2. (4) £225,000.

LINDSEY C.C. (1) Erection of a hostel (2) Riseholme Farm Institute, near Lincoln. (3) H. Dorrington & Sons Ltd., Spital Terrace, Gainsborough.

LIVERPOOL C.C. (1) 386 dwellings. (2) Huyton. (3) Unit Construction Co. Ltd., Speke Boulevard, Liverpool. (4) £584,430. (1) 108 flats. (2) Tatlock Street. (3) Peak Construction (Liverpool) Ltd., Broad Lane, Liverpool. (4) £235,966.

LONDON, S.W. (1) Six-storey building containing shops and offices. (2) Streat-ham High Road. (3) Ford & Walton Ltd., Warton Road, London, E.15. (4) £150,000.

LONDON, W. (1) Multi-storey shops and offices. (2) 63-67 Marylebone Lane, W.1. (3) McLaughlin & Harvey Ltd., 24 Highbury Grove, London, N.5.

LONDON, W. (1) Erection of offices for Laudis & Gyr Ltd. (2) Victoria Works, Acton, W. (3) W. J. Cearn Ltd., Carpenters Road, London, E.15. (4) £100,000.

LONDON, W. (1) Redevelopment of "Monico" site with a 14-storey building. (2) Piccadilly Circus, etc. (3) Tersons Ltd., 4 Dollis Park, London, N.3. (4) About £7 million.

LONDON, W. (1) Rebuilding Welbeck Hotel. (2) Welbeck Street, W.1. (3) Bovis Ltd., Stanhope Street, London, W.1.

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LUTON B.C. (1) 19 shops, with maisonnettes, 69 garages. (2) Farley Hill estate. (3) Drabble Construction Co. Ltd., Canon Street, Welldonborough, Northants. (4) £115,813.

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MIDDLESEX C.C. (1) Extensions and alterations at primary school. (2) Sun-bury-on-Thames. (3) Walker (Tooting) Ltd., Hackbridge, Surrey. (4) £33,537.

PLYMOUTH. (1) Five warehouses for Mutley Properties Ltd., 6 Mount Pleasant Terrace, Plymouth. (3) Direct Labour.

POPULAR B.C. (1) Construction of a baths establishment. (2) Sutherland Road. (3) A. E. Symes Ltd., 236 High Street, Stratford, London, E.15. (4) £77,137.

ST. MARYLEBONE B.C. (1) Erection of 76 flats and shops. (2) Church Street extension scheme. (3) Gee, Walker & Slater Ltd., 100 Park Lane, London, W.1. (4) £240,059 (modified tender).

SHEFFIELD C.C. (1) 439 dwellings. (2) Fox Hill estate. (3) W. J. Simms, Sons & Cooke Ltd., Haydn Road, Sherwood, Nottingham. (4) £906,793.

STRET福德 B.C. (1) C. of E. primary school. (2) Warwick Road South. (3) Parker & Calvert Ltd., Pine Street, Heywood, Lancs.

SWINTON, LANCs. (1) Social centre for N.C.B. Coal Industry Welfare Association. (3) Levi Thomason & Sons Ltd., Bridge Works, Lymm.

WALTHAMSTOW B.C. (1) 286 houses, 15 bungalows, 139 garages. (2) Outwood Common, Essex (stage 2). (3) Coward (Contractors) Ltd., Harrow Crescent, Romford. (4) £568,084.

WESTMINSTER C.C. (1) Block of flats. (2) Hyde Place development. (3) John Laing & Son Ltd., Mill Hill, N.W.7. (4) £392,264. (1) Flats. (2) Berwick Street development. (3) Wates Ltd., 1258 London Road, London, S.W.16. (4) £345,521.

WEST SUFFOLK C.C. (1) Erection of a grammar school. (2) Newmarket. (3) Kerridge (Cambridge) Ltd., Sturton Street, Cambridge. (4) £69,696.

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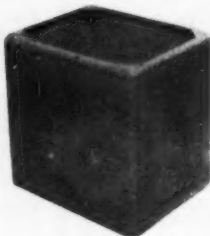
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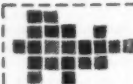
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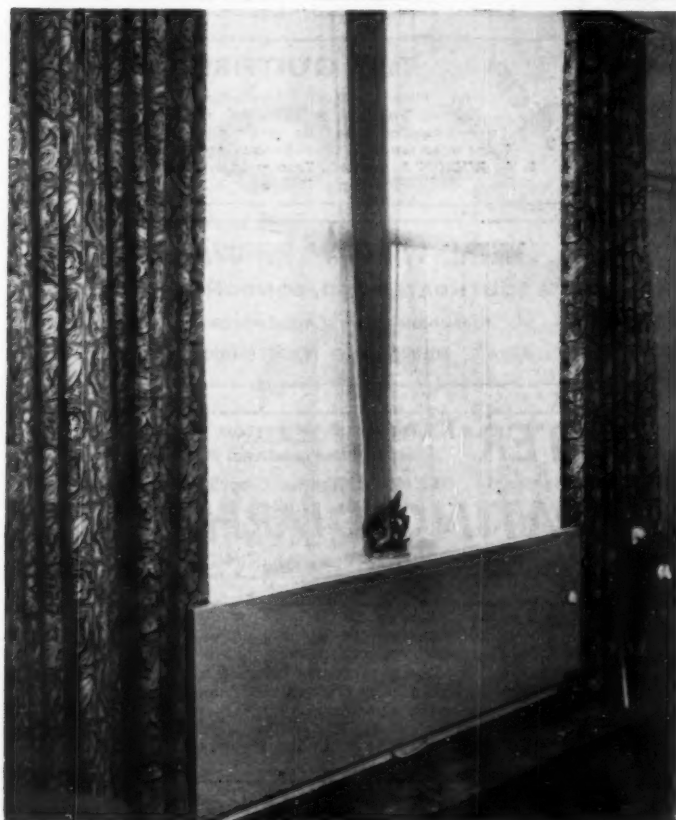
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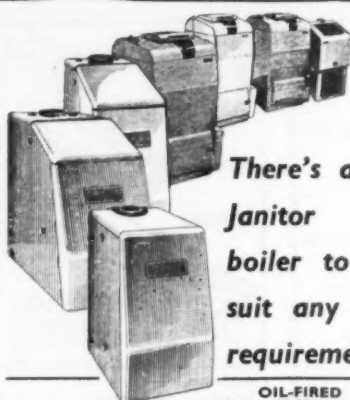
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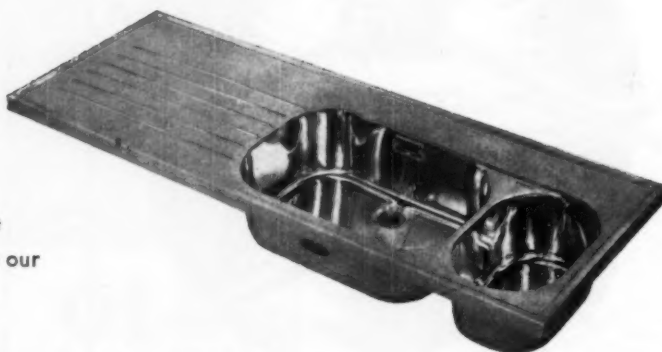


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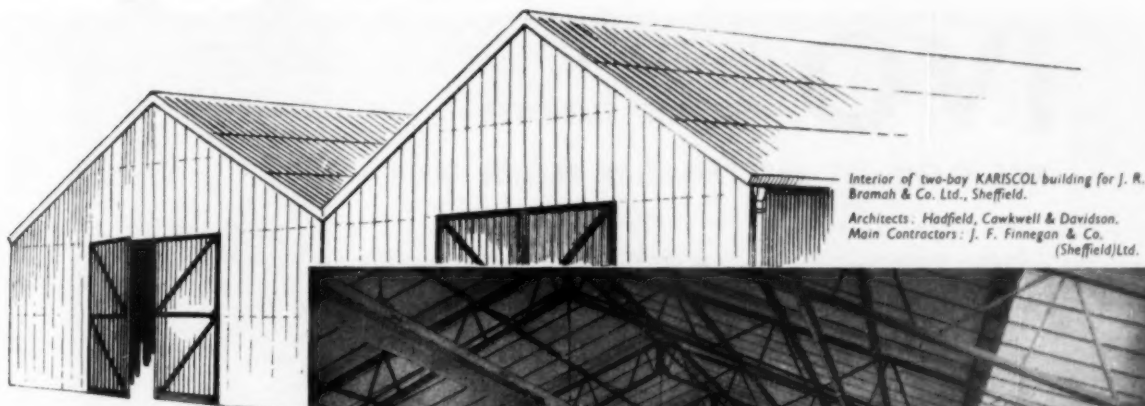
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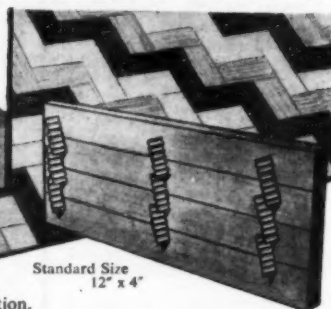
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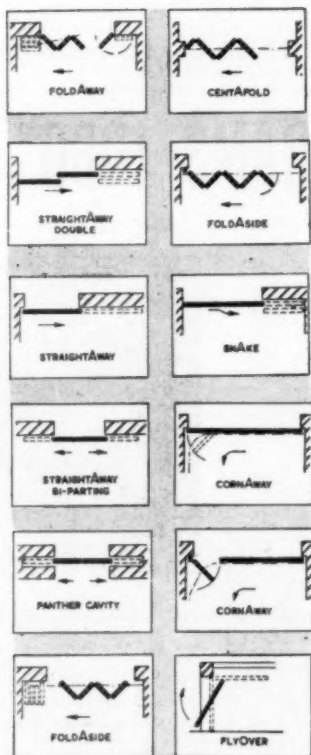
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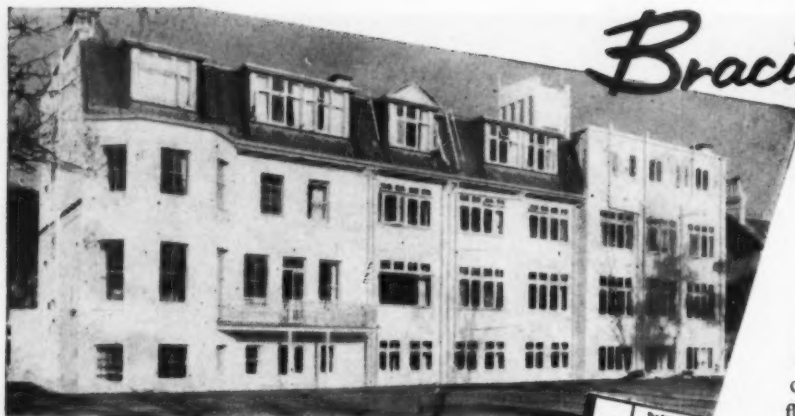
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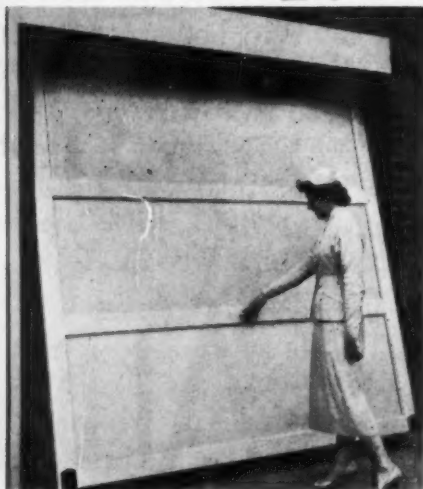
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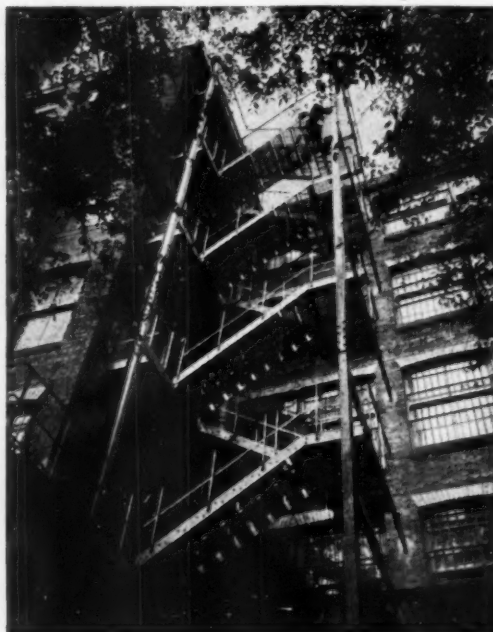
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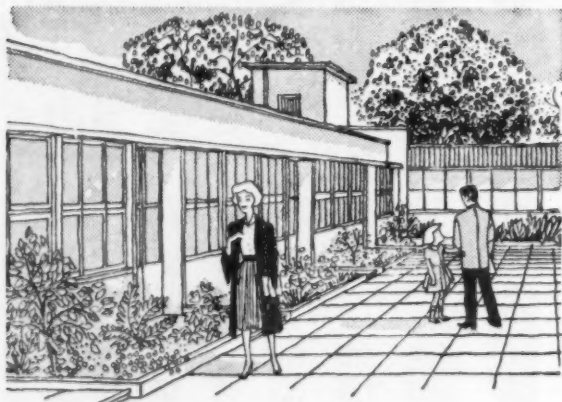
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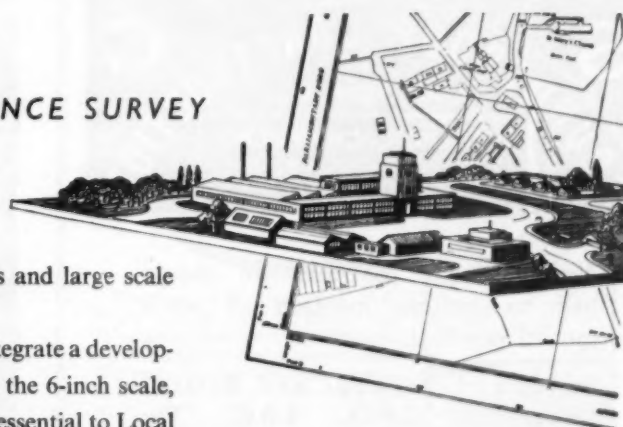
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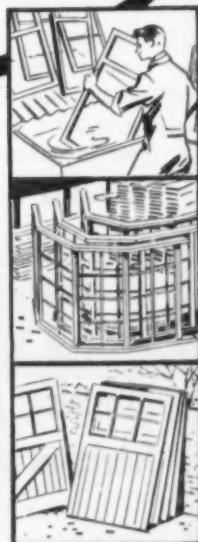
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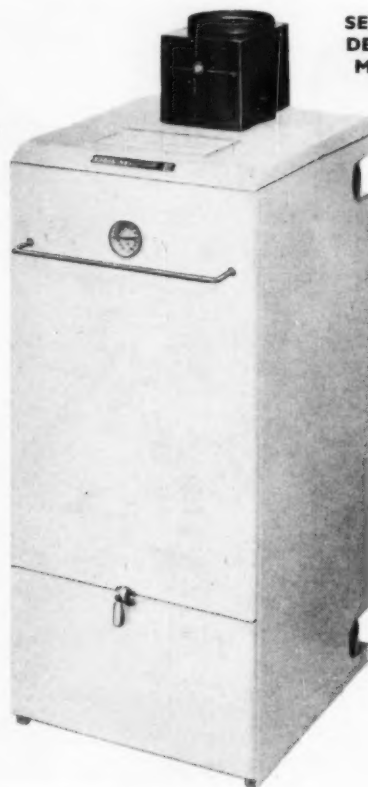


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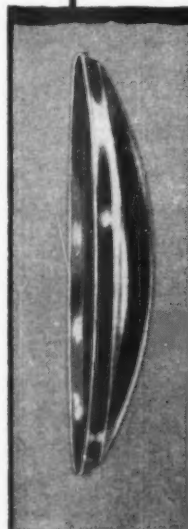
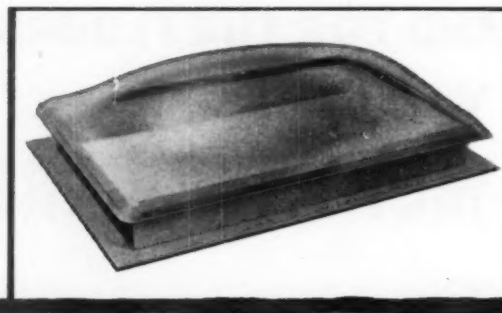
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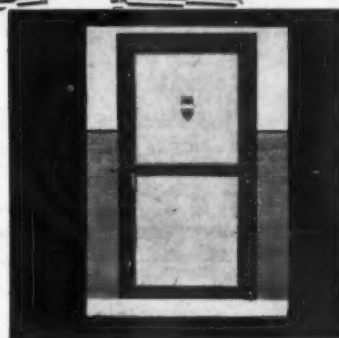
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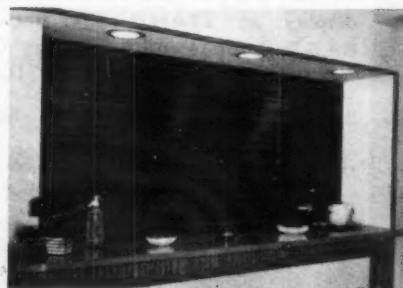
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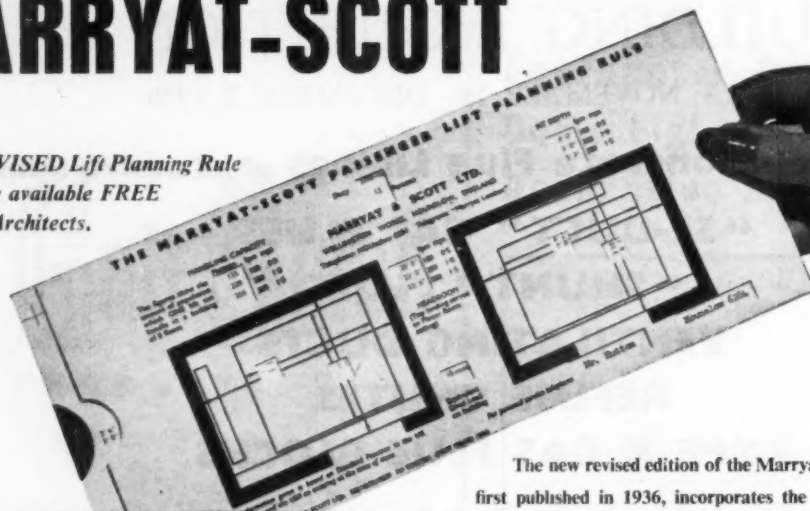
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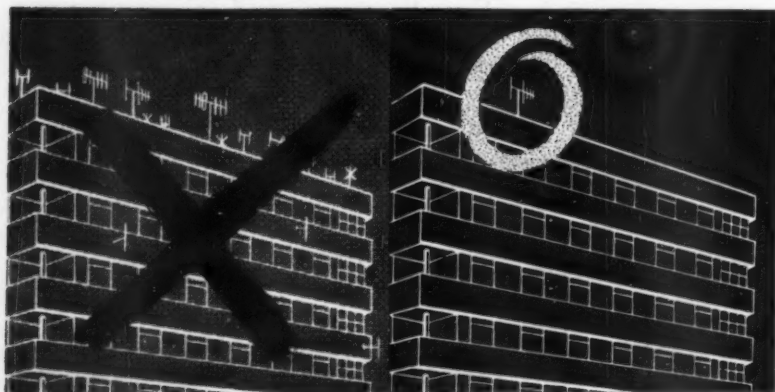
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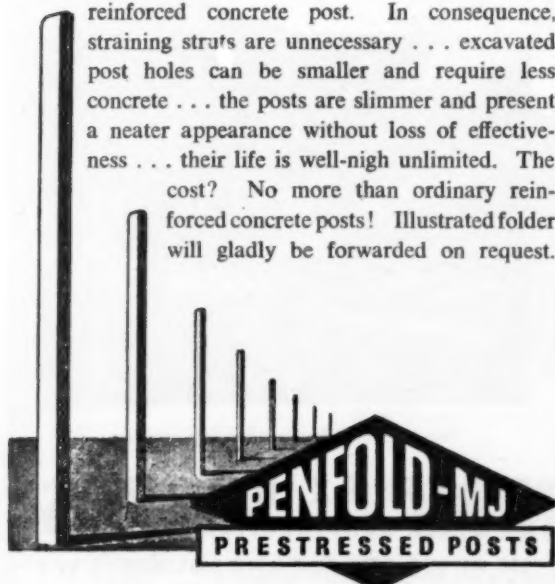
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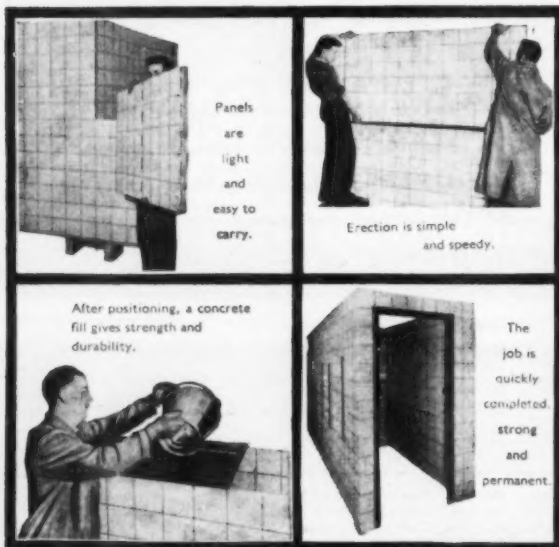
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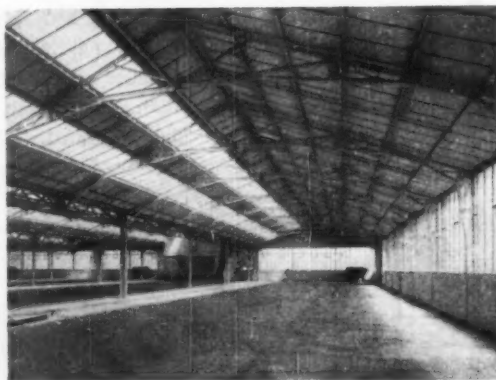
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OFFICIAL ANNOUNCEMENTS

APPOINTMENTS • CONTRACTS • TENDERS

Rate: 20/- per inch and pro rata, minimum half inch Close for press 1st post Monday for following Wednesday Issue

APPOINTMENTS

Borough of Enfield
Borough Engineer's Department
APPOINTMENT OF ARCHITECTURAL ASSISTANT
APPLICATIONS are invited for the above appointment at a salary in accordance with Grade APT II of the National Scheme of Conditions of Service (£765 a £30-£880 per annum) with the additional appropriate London Weighting.
The commencing salary will be fixed at a point within the scale commensurate with qualifications and experience.
Application forms obtainable from Mr. H. D. Peake, M.Sc.(Eng.), M.I.C.E., Borough Engineer and Surveyor, 7 Little Park Gardens, Enfield, Middx, should be returned to the undersigned.

CYRIL E. C. R. PLATTEN,
Town Clerk.
Public Offices,
Gentleman's Row,
Enfield, Middx. [0777]

SURVEYORS
(Basic Grade)
REQUIRED by Ministry of Works in Birmingham and Manchester. National salary scale £805 (at age 25) to £1,260 per annum. Starting pay up to £1,095 p.a. (at age 34) according to age and experience. Five-day week, 22 days' annual leave. Prospects of promotion and opportunities for permanent and pensionable posts.
Applicants should be Registered Architects by examination or Corporate Members of the R.I.C.S. (Building Section). Apply stating age, qualifications and full details of experience to Chief Maintenance Surveyor (Recruitment (A)), M.O.W., Stanley House, Marsham Street, London, S.W.1. [5755]

Borough of Harrow
APPOINTMENT OF BUILDING INSPECTOR
APPLICATIONS are invited for the above appointment in the Department of the Borough Engineer and Surveyor, within APT Grade II (£765/£880 per annum) plus London Weighting, commencing point according to qualifications and experience.

Applicants should have practical experience of the administration of building by-laws and regulations made under the Petroleum Acts.

Possession of the Building Inspector's Certificate of the Institute of Municipal and County Engineers or similar qualification will be an advantage.

The appointment will be subject to the Local Government Superannuation Acts and the National Joint Council's Scheme of Conditions of Service. Housing accommodation is not offered. A contribution towards removal expenses will be considered.

Application forms, obtainable from me, should be returned by November 21, 1959.

D. H. FRITCHARD,
Town Clerk.
Harrow Weald Lodge,
92 Uxbridge Road,
Harrow Weald,
Harrow. [5766]

Hampshire County Council
ASSISTANT ARCHITECT
(Special Scale £785/£1,070)

REQUIRED in the County Architect's Department. Candidates must have passed Parts I and II of the R.I.B.A. Final Examination, or equivalent, and have had at least five years' experience (including the period spent in theoretical training). The commencing salary will be determined by experience and ability. The post is pensionable and subject to a satisfactory medical report. Assistance given with removal and other expenses in approved case.

Application forms (send S.A.E.) returnable by November 25, from the Clerk of the County Council, The Castle, Winchester. [5784]

Borough of Bexley
ARCHITECTURAL ASSISTANTS
APPLICATIONS are invited for two appointments in the Borough Engineer and Surveyor's Department. The salary for each of these posts is within Grade APT II (£765/£880 per annum) plus London Weighting. Preference will be given to suitably qualified candidates with experience of housing and school projects.

Form of application and conditions of appointment are obtainable from the Borough Engineer, West Lodge, Broadway, Bexleyheath, Kent, to whom completed applications must be returned by Monday, November 30, 1959.

The Council may be prepared to assist in the provision of housing accommodation. Canvassing will disqualify.

ARTHUR GOLDFINCH,
Town Clerk. [5792]

APPOINTMENTS (cont)

City of Birmingham
Public Works Department
APPLICATIONS are invited for the posts of Fire Escape and Petroleum Officers in the Building Surveyor's Section.

Salary Grade APT II (£765/£880 per annum). Candidates should be eligible for appointment to Grade APT II in accordance with the conditions approved by the City Council.

The successful applicants will be required to prepare reports, specifications and certificates and carry out duties as occasioned by the Factories Acts, the Public Health Act, 1936, the Birmingham Corporation (General Powers) Act, 1929 (in connection with means of escape in case of fire) and the Petroleum (Regulation) Acts, 1928 and 1936.

The posts are permanent, superannuable and subject to a medical examination.

Applications endorsed "Fire Escape and Petroleum Officers", stating qualifications, age and experience, together with the names of two referees, should reach the undersigned by December 5, 1959.

Canvassing disqualifies.
HERBERT J. MANZONI,
City Engineer and Surveyor.

Civic Centre,
Birmingham, 1. [5774]

East Riding of Yorkshire County Council
APPLICATIONS are invited for the following permanent appointments on the staff of the County Architect.

Assistant Architects. Special Scale Salary, £785/£1,070 per annum.

Applicants are required to have passed Parts I and II of the R.I.B.A. final or special final examination or their equivalent at one of the recognised schools of architecture.

Architectural Assistants. Grade APT I, £610/£765 per annum.

Applicants are required to have passed the intermediate R.I.B.A. examination.

Particulars of qualifications, age, experience, past and present appointments with salaries, together with the names of three referees should be sent to the County Architect, County Hall, Beverley, not later than Saturday, November 21, 1959.

Assistance towards removal, lodging and travelling expenses may be granted.

THOMAS STEPHENSON,
Clerk of the Council. [5776]

Borough of Bedford
APPOINTMENT OF ASSISTANT ARCHITECT
APT Grade III

APPLICATIONS are invited for the above position in the Architectural Section of the Borough Engineer and Surveyor's Department.

Applicants must have passed the intermediate examination of the R.I.B.A. and the salary will be in accordance with APT Grade III (£680/£1,065) commencing at a point commensurate with experience and qualifications.

Bedford is a rapidly expanding Borough and the Department is at present concerned with a large housing programme and redevelopment of the Central Area.

The Council is prepared to assist in the provision of housing and contribute towards the cost of removal expenses.

The appointment is permanent, superannuable and subject to one month's notice on either side and the successful applicant will have to pass a medical examination.

Forms of application and particulars of the appointment may be obtained from the undersigned and should be returned not later than November 24, 1959.

F. W. DAWKES,
Borough Engineer and Surveyor.
Newnham House,
Horne Lane,
Bedford. [5794]

The South Wales Electricity Board
SENIOR ARCHITECTURAL DRAUGHTSMAN
OUR Architectural Section does a large, varied and interesting range of work.

It is situated in a locality which is rural, yet only five miles from the city of Cardiff.

To help maintain our standards in servicing over 600,000 consumers, we need a Senior Architectural Draughtsman who has obtained or is studying for membership of the R.I.B.A.

The salary will be £790/£890 and applications to the Secretary at St. Mellons, Cardiff, will receive careful and prompt consideration.

(Closing date for application, Saturday, December 5, 1959. Envelopes should be marked "Senior Architectural Draughtsman—46/59.") [5786]

APPOINTMENTS (cont)

West Kesteven Rural District Council
TEMPORARY TECHNICAL ASSISTANT

House Building and House Improvements
APPLICATIONS are invited for the appointment of a Temporary Technical Assistant in the Surveyor's Department at a salary within APT Grade I (£610/£765 per annum) of the National Salary Scales, together with a travelling allowance applicable to a car not exceeding 10 h.p. or 1,199 c.c. The commencing salary within the scale will be fixed according to experience and qualifications. The appointment is expected to be for two years in the first instance.

Applicants must be neat draughtsmen and efficient in the preparation of specifications, with particular regard to house improvement work. They must be experienced in supervision of direct labour and contract work and also settling final statements. The appointment will be subject to the National Scheme of Conditions of Service and to one month's notice on either side.

The Council will consider the provision of housing accommodation, if required, for the successful applicant.

Applications stating age, qualifications and experience, together with the names and addresses of two persons to whom reference may be made, must be delivered to me at Sandon Close, Grantham, not later than Monday, November 16, 1959.

J. R. MORGAN,
Clerk of the Council. [5787]

Norfolk County Council
QUANTITY SURVEYOR'S ASSISTANT

required. Salary Grade APT I (£610/£765). Applicants must have experience of abstracting and billing, and of checking final accounts: superannuable subject to passing medical examination. Applications, stating age, training, experience, present appointment and salary, names of three referees (including employer) to County Architect, 27 Thorpe Road, Norwich, Norfolk. NOR.OIT, by November 23. [5788]

London County Council
ARCHITECTS (up to £1,135)

REQUIRED for Housing, Schools and General Divisions of Architect's Department. Full and varied programme of new work including schools, multi-storey flats and town development. Starting salaries according to qualifications and experience.

Particulars and application form from Hubert Bennett, F.R.I.B.A., Architect to County, EK/77/59, County Hall, S.E.1. (1879). [0143]

ARCHITECTURAL, CIVIL AND PUBLIC HEALTH ENGINEERING DRAUGHTSMEN

PENSIONABLE posts for men and women aged at least 20 on June 1, 1959, with at least three years' training, including adequate practical experience with appropriate technical study. At least one year must have been spent on full-time drawing-office work. Men's starting salary (London) £542 10s (20s) to £783 10s (over). Scale maximum £900. Promotion prospects. Write Civil Service Commission, 17 North Audley Street, London, W.1, for application form, quoting S68-69/59/12. [5782]

Somerset County Council
APPOINTMENT OF COUNTY ARCHITECT AND OF DEPUTY COUNTY ARCHITECT

APPLICATIONS are invited for the following appointments:

(1) **County Architect**, at a salary of £3,065 per annum rising by annual increments of £135 to £3,470 per annum.

(2) **Deputy County Architect**, at a salary of £2,150 per annum rising by annual increments of £70 to £2,430 per annum.

The person appointed as County Architect will be expected to take office on August 1, 1960. The Deputy County Architect will be required to take office as soon as possible after the date of his appointment.

Candidates for both appointments must be Registered Architects and Fellows or Associates of the Royal Institute of British Architects with considerable experience of the design of public buildings of all classes, of the handling of contracts, and of technical administration.

Further particulars of both appointments can be obtained from the undersigned to whom applications for appointment, accompanied by the names and addresses of three referees, must be submitted on or before December 9, 1959.

Canvassing in any form will disqualify and applicants must disclose any relationship to any member of senior officer of the Council.

E. S. RICKARDS,
Clerk of the County Council.
County Hall,
Taunton. [5804]

MISCELLANEOUS SECTION

RATE: 1/9d per line, minimum 3/6d, average line 6 words. Each para charged separately. Advertisements for Situations Wanted are accepted at the specially reduced rate of 6d. per line, minimum 1/6d.

BOX NOS. add 2 words plus 1/- for registration and forwarding replies which should be addressed c/o "The Architect & Building News," Dorset House, Stamford Street, London, S.E.1.

SEMI-DISPLAY Advertisements with centralized lines are charged at 20/- per inch, and pro rata, minimum half inch.

PRESS DAY, Monday. Remittances payable to Messrs. Iliffe & Sons Ltd., Dorset House, Stamford Street, London, S.E.1.

No responsibility accepted for errors

APPOINTMENTS (cont)

Borough of Aldershot ASSISTANT ARCHITECT

APPLICATIONS are invited for the position of Assistant Architect on the staff of the Borough Engineer and Surveyor at a salary within the Special Grade for Architectural Assistants (£785/£1,070, point of entry according to experience). Applicants must be Associates of the R.I.B.A.

Applications stating age, qualifications and experience, together with the names and addresses of two referees, should be sent to the Borough Engineer and Surveyor, Town Hall, Aldershot, not later than Monday, December 7, 1959.

Housing accommodation will be made available if required.

H. B. SALES,
Town Clerk. [5803]

November 6, 1959.

Borough of Ealing

(1) **Architectural Assistant, APT IV** (£1,095/£1,250 inclusive). Must hold recognized architectural qualifications.

(2) **Junior Architectural Assistant, APT I** (£610/£765, plus London Weightings). Must have passed Inter R.I.B.A. or its equivalent.

Full particulars and application forms from Borough Engineer, Town Hall, Ealing, W.5.
Closing date November 30, 1959.

E. J. COPE-BROWN,
Town Clerk. [5802]

Portsmouth College of Art

Principal: W. J. L. Gaydon, A.R.C.A.

APPLICATIONS are invited for the post of Assistant Lecturer and Studio Master in the School of Architecture. Preference will be given to applicants who have been trained in a recognized School of Architecture, are Associates of the Royal Institute of British Architects and have at least three years post-academic practical experience.

The salary will be in accordance with the Burnham Technical Scale for Assistants, Grade B, £700 x £27 10s—£1,150 (men), plus allowances at both minimum and maximum of £90 for degree (or professional equivalent) and £30/£120 for training. In determining the commencing rate, increments of £27 10s will be allowed for previous teaching or professional experience.

Further particulars and forms of application, which should be returned as soon as possible, may be obtained from the Registrar, College of Art, Guildhall Square, Portsmouth. [5801]

ARCHITECTURAL APPOINTMENTS VACANT

ARCHITECT'S office, with modern approach to design, requires Assistants of Intermediate and Final standard, London or Reading, for interesting and varied work. Good salary. Eric G. V. Hives and Sons, 80 Wimpole Street, Cavendish Square, W.1, and 46 Queen's Road, Reading. Apply in first instance to Reading, telephone 55484/5. [5785]

ARCHITECTURAL ASSISTANTS. Intermediate to Final standard, with some office experience, required for interesting work in West End office. Plenty of scope for responsibility and experience. Telephone for appointment to Mayfair 9554 or write with particulars to Box 5861. [0222]

ARCHITECTURAL ASSISTANT, London, Final standard. Industrial and commercial. Progressive and interesting. Salary according to experience and ability. Box 3667. [0079]

ARCHITECTURAL ASSISTANT, Intermediate standard. Busy London office. Good prospects. Box 3668. [0080]

ARCHITECTURAL ASSISTANT at Final standard required by Buckinghamshire office. Interesting and varied work with scope for initiative and responsibility. State age, experience and salary required to Box 3143. [0136]

ARCHITECTURAL ASSISTANTS required. Why travel to Town when I can offer two Assistants, Inter-Final Grade, first-class work on stores, office buildings, factories, dance halls, etc.? Five-day week, bonus scheme, luncheon vouchers. Use of cars on job visits and for summer holidays. Pleasant surroundings with easy access to Morden Underground and Southern Electric Merton Park Station, 146 Mostyn Road, S.W.19. Tel.: L18erty 8181. [5745]

ARCHITECTURAL ASSISTANTS. Senior and Junior, required by firm in High Wycombe for commercial and industrial schemes. Scope for responsibility and experience. Five-day week. Write Box 5793. [0999]

ASSISTANTS of Intermediate or equivalent standard, required in busy City office. Interesting and varied work, offering scope for initiative and responsibility. Commencing salary up to £800 per annum, according to qualifications. Write Stewart & Hendry, F/R.I.B.A., A.M.T.P.I., 90 Fenchurch Street, E.C.3, or telephone Royal 6216/7. [0964]

ASSISTANTS of Intermediate and Final standard required for large and small educational jobs, some overseas: at first in London and later in Guildford office. Write to Frank Rutter, F.R.I.B.A., 2 Finchley Road, London, N.W.8. [5800]

ASSISTANT ARCHITECT required. Experienced on the maintenance of industrial buildings. Apply for further information to the General Manager, Lancashire United Transport Ltd., Atherton, Lancs. [5711]

COVELL & MATTHEWS

require capable and enthusiastic Senior and Junior Assistants to work on large central area redevelopment projects
Salary according to experience
Five-day week
Ring REgent 2291 [5552]

CARDIFF. Shrewsbury and Swansea offices of Sir Percy Thomas & Son require Architectural Assistants to work on schemes of interest and importance. Applicants should preferably be qualified, with experience in progressive design. The salary range is from £650 p.a. to £1,000 p.a. with good prospects, for the right men, of promotion to a higher salary group. Holiday arrangements—three weeks per annum and every third Saturday morning free.

Applications giving full particulars of age, experience, etc., to the Secretary, Sir Percy Thomas & Son, 10 Cathedral Road, Cardiff. [5791]

Big opening for young Architect to show design ability in preparation and execution of large modern project. Also Assistant Architect required to form design group nucleus.

Salary £650-£1,000 plus, depending on ability.

Please write to

Shingler & Risdon,
47 Bedford Row, W.C.1
or ring Chancery 2951

ARCHITECTURAL ASSISTANTS

required by
MINISTRY OF WORKS

For employment in London. Keen and enthusiastic assistants of Intermediate R.I.B.A. standard are required for the design of interesting and varied types of buildings in all parts of the world. The salary range is from £550 (at age 21) to £900. Starting pay according to age and experience. Five-day week. Three and a half weeks' annual leave. Good prospects of promotion and permanency. Permanent posts are pensionable and the pension scheme is non-contributory.

Apply, giving details of age, training and experience to: E. Bedford, C.B., C.V.O., A.R.I.B.A., Chief Architect, Ministry of Works, Room 435, Abell House, John Islip Street, London, S.W.1.

BOOTH, LEDEBOER & PINCKHEARD, 17-20 Mason's Yard, Duke Street, St. James's, S.W.1, require Assistants in salary range £750/£1,000 p.a. Tel. TRA 1866. [0901]

COUNTRY PRACTICE with varied work including new public houses; church and parsonage restorations; restoration of historic houses; country house alterations; Public School work; private estates, shops and small industrial jobs. Assistant required of R.I.B.A. Intermediate to Final standard, interested in accepting full responsibility from sketch plan stage to final accounts, including correspondence and site supervision. Salary £500/£800. Please write giving age and experience to Forsyth Lawson, Cunningham & Partners, Chartered Architects, 30 Horse Fair, Banbury, Oxon. [5783]

EDINBURGH. Qualified Assistant wanted immediately for small expanding practice. Please write giving details of age, experience and salary required, to Law and Dunbar-Nasmith, 54 Frederick Street, Edinburgh. [5759]

EDWARD D. MILLS AND PARTNERS require Assistants of Intermediate and Final standard. Write giving details of training, experience and salary required to 9-11 Richmond Buildings, Dean Street, Soho, London, W.1. [5790]

EXPERIENCED Architectural Assistant of Final standard urgently required by progressive South-end Architects with varied work. Design ability and site experience necessary. Write, stating age, experience, qualifications, present and required salary to: Silverton & Welton, A/R.I.B.A., 16 Weston Road, Southend-on-Sea, Essex. [5797]

GOLLINS, MELVIN, WARD & PARTNERS are looking for staff to work on the design of hospital, university and office projects. Age and experience are less important than enthusiasm and interest in architecture. Five-day week, quarterly bonuses, pensions scheme. Ring Welbeck 9991 for appointment. [5740]

HENING AND CHITTY, F.R.I.B.A., A.M.T.P.I., require experienced staff. Write full particulars to 30 Percy Street, W.1. [5795]

JACKSON & EDMONDS, architects, have a vacancy for a Senior Assistant in the salary grade £1,000 to £1,250 per annum for London office. Write stating experience (with particular reference to design), age, qualifications, training etc., to 116 Colmore Row, Birmingham, 3. [5778]

JACKSON & EDMONDS, architects, have vacancies in London and Birmingham offices for assistants in salary grades £600 to £800. Write stating age, experience and qualifications to 116 Colmore Row, Birmingham, 3. [5779]

JUNIOR ASSISTANT required by Hamilton & Chalmers, FF/R.I.B.A., 16 Old Buildings, Lincoln's Inn. Five-day week and luncheon vouchers provided. Telephone 5046. [5780]

J. DOUGLASS MATTHEWS & PARTNERS, Chartered Architects, 3 Ebury Street, London, S.W.1, require Assistants of post-intermediate standard. Please write, giving full details of education and experience. [5751]

PLAYNE & LACEY urgently require a recently qualified Architect or a Final standard evening school student for work on large scale university development. Telephone: WHI 2552 for interview. [5754]

RECENTLY Qualified and Intermediate standard Assistants required for private practice in the West Riding of Yorkshire undertaking a wide range of building types. Age and experience are less important than enthusiasm and interest in architecture. Apply stating salary required, to Box 5808. [5799]

REQUIRED by a Leicester firm for a 70,000 sq ft building project an Architect experienced and specializing in modern industrial design. Apply Box 5877. [5798]

ROBERT POTTER AND RICHARD HARE, F/R.I.B.A., have a vacancy for a qualified Assistant Architect to work on interesting university and civic projects. Five-day week. Write giving details of qualifications, experience and salary required to De Vaux House, Salisbury, Wilts. [5789]

SENIOR ASSISTANT required for varied and interesting work. Good prospects. Details and salary required to Flood, Robson & Paul, Chartered Architects, St. Nicolas House, West Mills, Newcastle. [5796]

TAYLOR, YOUNG & PARTNERS, Manchester, require assistants for work on schools, hospitals and other projects. Apply in writing to 195 Oxford Road, Manchester 13. [5726]

VERNER REES, LAURENCE & MITCHELL require Assistants for work on university projects. Please telephone PARK 3900 for interview or write to 38 Holland Villas Road, W.14. [5753]

Classified advertisements
continued overleaf

SITUATIONS VACANT

ARCHITECTURAL or Surveying Assistant required of Intermediate or Final standard with some office experience. Apply Victor Bloom & Partners, Architects, 12 Gloucester Place, W.1. HUN 2069. [5777]

CLERK OF WORKS required for Estates Department, to work in the Hackney area. Permanent position, three weeks' annual leave, non-contributory pension scheme, salary range £580/£925. Applications to be addressed to the Clerk to the Governors, Sir John Cass's Foundation, Jewry Street, Aldgate, E.C.3, giving full details of age, experience and qualifications, together with the names and addresses of three referees. Closing date December 2, 1959. [5781]

HEATING and Ventilating Draughtsmen required to assist in the design and detailing of new schemes and modifications to existing plant. The work covers most industrial services. Write: ref. HVD/1, Personnel Services Division, The Metal Box Co. Ltd., 37 Baker Street, London, W.1. [5763]

JUNIOR DRAUGHTSMEN urgently required for architects' department of Dolcis Ltd. Interesting work, five-day week, non-contributory pension scheme. Write stating age, experience and salary required to Ellis E. Somake, F.R.I.B.A., Chief Architect, 7/13 Gt. Dover Street, S.E.1. [5775]

SENIOR DRAUGHTSMAN required, with sound knowledge of building construction, for preparation of detail drawings and schemes for new and existing industrial buildings. Write: ref. SJD/1, Personnel Services Division, The Metal Box Co. Ltd., 37 Baker Street, London, W.1. [5764]

SERVICES OFFERED

GEN. Estimating Service. This service especially for the small builder. Your alterations and constructions priced. Qualified, 35 years in building construction. Box 5685. [5746]

WORK WANTED

ENQUIRIES invited for manufacture of builders' engineering items—steel frames, trusses, steel doors, etc., particularly in specialist work. Keen prices and quick delivery. Burley's, Weybridge, Surrey, Byfleet 4111. [5650]

G. BARTER & CO., Industrial Decorative Spray and Brush Painters (labour only on contract). We supply equipment, 1a Whitton Way, Hounslow, Middlesex. HOU/Inslow 9615, SOU/Insl 3815. [0083]

MOSAIC FLOORINGS. Polished hardwood parquets installed and polished from 27s 6d per yard, 24-hour laying service. Strip, Blocks or Coloumra Tiles, Flair Floorings, 18a Dashedwood Trading Estate, Balham. Balham 9270. [5683]

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WE can now cope with new contracts, travelling no object. For free estimates phone Canterbury 3854, or write to L. Stevens, 11 Watling Street, Canterbury. Contractors to the G.E.C. [5714]

EDUCATIONAL

GUARANTEED Examination Coaching for R.I.Ch. Surveyors, I.Qty. Surveyors, I.Mun.E., I.Struct.E., etc. First-class instruction courses in all aspects of Architecture, Building, Draughtsmanship, Surveying, Civil, Municipal, Structural and Sanitary Engineering. Write for free prospectus. International Correspondence Schools, Intertext House, Parkgate Road (Dept. 518), London, S.W.11. [0167]

ARCHITECTURAL CARVINGS

CARVINGS, architectural (composition) for built-in furniture, wall panelling, etc. Variety of 2,000 different types of varying periods. On view at showroom Michael Shavelson, 105/107 Brick Lane, E.1. Regret no catalogues. Telephone: BIS 0225. [5793]

MISCELLANEOUS

A PORTABLE record of your work in photographs. Kaufmann Photography, 43 Mill Lane, London, N.W.6. Tel.: HAM/pslead 8920, CHANCERY 2345. [5752]

ARCHITECTS, Surveyors, Demolishers, etc., we are buyers of redundant and surplus refrigeration equipment, all kinds. We dismantle and collect. Best prices given. Alfred's Ices (1954) Ltd., 1 Hall Place, W.2, Paddington 6619. [5702]

STEEL AND WOVEN TAPES

REPAIRED at moderate cost with prompt dispatch. Send a broken tape for trial. Large stocks of new Chesterman Steel and Woven Tapes in all patterns and lengths. Quotations per return. Quantity discounts. A. W. Phillips & Son (Updon Park) Ltd., 47-51 Plashet Grove, London, E.6 [5399]

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